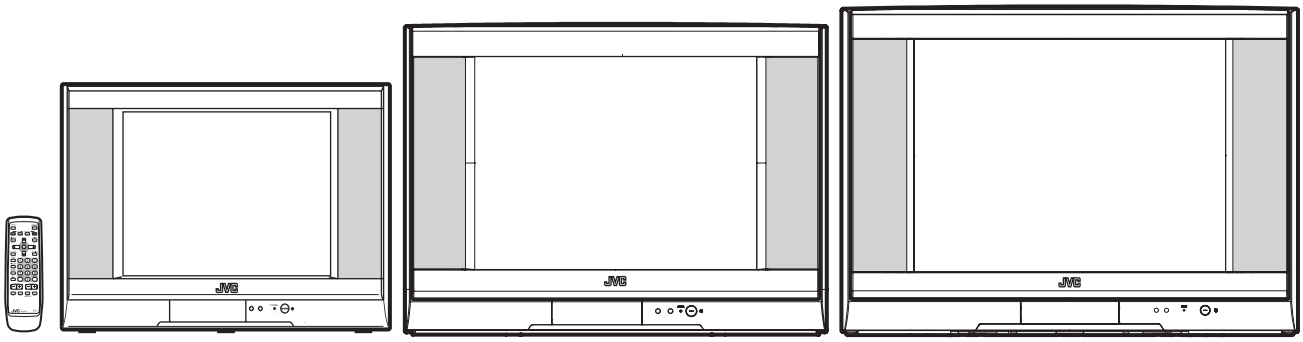
JVC

SERVICE MANUAL

FLAT COLOR TELEVISION

AV-21MT16/Z, AV-21MT36/Z, AV-25MT16/Z, AV-29MT16/Z, AV-29MT36/Z

BASIC CHASSIS
CW2



[AV-21MT16/Z, AV-21MT36/Z] [AV-25MT16/Z] [AV-29MT16/Z, AV-29MT36/Z]

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SPECIFICATION

Items		Contents				
		AV-21MT16/Z	AV-21MT36/Z	AV-25MT16/Z	AV-29MT16/Z	AV-29MT36/Z
Dimensions (W × H × D)		64.9cm × 46.5cm × 46.9cm	64.9cm × 47.8cm × 46.9cm	72.8cm × 53.6cm × 47.7cm	81.2cm × 58.4cm × 52.1cm	
Mass		23.5kg		30.5kg	40kg	
TV RF System		M/N				
Colour System	TV Mode Video Mode	PAL /NTSC3.58 / NTSC4.43 PAL / NTSC3.58 / NTSC4.43				
Stereo System		MTS				
Teletext system		Closed caption				
Receiving Frequency	VHF Low VHF High UHF	55.25MHz ~ 127.25MHz (CH.2 ~ CH.B) 133.25MHz ~ 361.25MHz (CH.C ~ CH.W + 11) 367.25MHz ~ 801.25MHz (CH.W + 12 ~ CH.69)				
Intermediate Frequency	VIF	38.0MHz				
	SIF	M/N : 33.5MHz (4.5MHz)				
Colour Sub Carrier Frequency		3.58MHz (PAL /NTSC)				
Aerial Input Terminal		75Ω unbalanced, coaxial				
Power Input		AC90V ~ AC260V, 50Hz / 60Hz				
Power Consumption		112W (Max.) / 80W (Avg.)	134W (Max.) / 90W (Avg.)	132W (Max.) / 92W (Avg.)	167W (Max) / 109W (Avg.)	215W (Max.) / 130W (Avg.)
Picture Tube		A51QGA993X		A59QDC580X	A68QCU870X52S	
Screen Size		Visible size: 52.1cm (Diagonal) / 41.6cm × 31.5 cm (H × V)		Visible size: 61.0cm (Diagonal) / 48.6cm × 36.8cm (H × V)	Visible size: 69.2cm (Diagonal) / 55.4cm × 41.4cm (H × V)	
High Voltage		28.5kV ± 1.5kV (at zero beam current)		30.5kV ± 1.5kV (at zero beam current)	31.5 kV + 1.0kV / -1.5kV (at zero beam current)	
Speaker		6.5cm × 13cm, Oval type × 2	6.5cm × 13cm, Oval type × 2, 13cm round type × 1 (Bass blaster unit)	6.5cm × 13cm, oval type × 2		6.5cm × 13cm, Oval type × 2, 13cm round type × 1 (Bass blaster unit)
Audio Output		7W + 7W	7W + 7W + 13W	7W + 7W	10W + 10W	7W + 7W + 13W
Video / Audio Input (1/2/3)	S-Video [1]	Mini-DIN 4 pin × 1 Y: 1V(p-p), positive (negative sync provided), 75Ω C: 0.286V(p-p) (Burst signal), 75Ω				
	Video [1/2/3]	1V(p-p), negative sync, 75Ω, RCA pin jack × 3				
	Audio [1/2/3]	500mV(rms) (-4dBs), high impedance, RCA pin jack × 6				
	Component Video [2]	RCA pin jack × 3 Y:1V(p-p), positive (negative sync), 75Ω Cb/Cr:0.7V(p-p), 75Ω				
Video / Audio Output	Video	1V(p-p), 75Ω, RCA pin jack × 1				
	Audio	500mV(rms)(-4dBs), Low impedance (400Hz when modulated 100%), RCA pin jack × 2				
Headphone		3.5mm stereo mini jack × 1				
Remote Control Unit		RM-C1287-1H (AA/R06/UM-3 battery × 2)				

Design & specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 SAFETY PRECAUTIONS

(1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual**. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

(4) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED (NEUTRAL) : (⏚) side GND and EARTH : (⏚) side GND.
Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.

(5) If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See B1 POWER SUPPLY check).

(6) The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

(7) Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

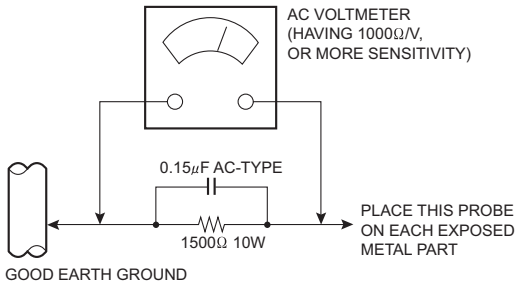
(8) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

(9) **Isolation Check (Safety for Electrical Shock Hazard)**
After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

a) **Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. (. . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
This method of test requires a test equipment not generally found in the service trade.

b) **Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

Alternate Check Method
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000Ω per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 FEATURES

- New chassis design enables use of an interactive on-screen control.
- Pure flat CRT produces fine textured picture in every detail.
- Wide range voltage (110V ~ 240V) for AC power input.
- With AUDIO/VIDEO/S-VIDEO/COMPONENT input terminals.
- I^2C bus control utilizes single chip ICs.
- By means of AUTO PROGRAM, the TV stations can be selected automatically and the TV channels can also be rearranged automatically.
- Built-in DIGITAL ECO MODE (ECONOMY, ECOLOGY).
  In accordance with the brightness in a room, the brightness and/or contrast of the picture can be adjusted automatically to make the optimum picture which is easy on the eye.
- Built-in OFF TIMER & RETURN +.

2.2 MAIN DIFFERENCE LIST

⚠	Items	AV-21MT16/Z	AV-21MT36/Z	AV-25MT16/Z	AV-29MT16/Z	AV-29MT36/Z
	SUPER BASS	NO	YES	NO	NO	YES

2.3 MAIN CPU [MAIN PWB : IC701] PIN FUNCTION

Pin No.	Pin name	I/O	Function
1	VssP2	-	GND
2	VssC4	-	GND
3	V1.8C4	I	1.8V (Digital)
4	V3.3A3	I	3.3V
5	VrefP_Sdac	I	3.3V (Positive)
6	VrefN_Sdac	-	GND
7	VrefP_Sdac	I	3.3V (Negative)
8	VrefN_Sdac	-	GND
9	VrefP_Sdac	I	3.3V (Positive)
10	XtalIn	I	24.576MHz for system clock
11	XtalOut	O	24.576MHz for system clock
12	VssA1	-	GND
13	NECK	I	V-guard input/ I/O switch
14	CONT	I	1.8V regulator control
15	V5P1	I	+5V
16	Ph2	-	Phase-2 filter
17	Ph1	-	Phase-1 filter
18	Gnd1	-	GND
19	SecPll	-	SECAM PLL decoupling
20	Dec8G	-	Bandgap decoupling
21	EW	O	East-West drive output
22	VDRB-	O	Vertical drive B output
23	VDRA+	O	Vertical drive A output
24	Vif1	I	Video IF input 1
25	Vif2	I	Video IF input 2
26	Vsc	-	Vertical sawtooth capacitor
27	Iref	I	Reference current input
28	GndIF	-	GND
29	Sif1	I	Sound IF input 1
30	Sif2	I	Sound IF input 2
31	AGC	O	Tuner AGC output
32	EHT	I	EHT/overvoltage protection input
33	Ssif/RefIn/Avl/RefOut	O	Automatic Volume Levelling/ sound IF input / subcarrier reference output / external reference signal input for I signalmixer for DVB operation
34	L3	I	Audio-L3 input (left signal)
35	R3	I	Audio-R3 input (right signal)
36	L-OUT	O	Audio L output
37	R-OUT	O	Audio R output
38	DecsDem	-	Decoupling sound demodulator
39	QssO/AmO/AudeEm	O	QSS intercarrier output / AM output / deemphasis / (front-end audio out)
40	Gnd2	-	GND
41	PllIf	-	IF-PLL loop filter
42	SifAgc	-	AGC sound IF
43	IfVo/FmRo/DvbO	O	Not used
44	NC	O	Not used
45	V8AudioSwitches	I	8V
46	AgcSsif	-	AGC capacitor second sound IF
47	V5P2	I	5V
48	V-OUT	O	Video output
49	L1	I	Audio-L1 input
50	R1	I	Audio-R1 input
51	V3	I	Video V3 input
52	C4	I	Not used
53	Audio2InL	I	Not used
54	Audio2InR	I	Not used
55	V2/Y	I	Video V2 input
56	L2	I	Audio L2 input (Left signal)
57	R2	I	Audio R2 input (right signal)
58	Y3/Cvbs	I	S-Video Y1 input
59	C1	I	S-Video C1 input
60	AudioLsL	O	Audio L output for audio power amplifier
61	AudioLsR	O	Audio R output for audio power amplifier
62	HP-L	O	Not used
63	HP-R	O	Not used
64	CVBSO/PIP	O	CVBS / PIP output
65	SVM	O	Not used
66	FbiSo	I	Flyback input/sandcastle output
67	Hout	O	Horizontal output
68	VssComb	-	GND
69	V5Comb	I	5V
70	Vin/R2/Pr	I	PIP R input
71	Uin/B2/Pb	I	PIP B input
72	Yin/G2/Y	I	PIP G input
73	Ysync	I	Not used
74	Yout	O	Not used
75	Uout/INSSW2	I	YUV insertion input
76	NC	O	Not used
77	INSSW3	I	YUV insertion input
78	R3/Pr	I	Component PR input (Video-2)
79	G3/Y	I	Component Y input (Video-2)
80	B3/Pb	I	Component PB input (Video-2)
81	Gnd3	-	GND
82	V5P3	I	5V
83	BCL	I	Beam current limiter input
84	BLKIN	I	Black current input
85	Rout	O	R output
86	Gout	O	G output
87	Bout	O	B output
88	V3.3A1	I	3.3V
89	RefAdN	-	GND
90	V3.3RefAdP	I	3.3V (Positive)
91	RefAd	I	3.3/2V
92	GndA	-	GND
93	V1.8A	I	1.8V
94	V3.3A2	I	3.3V
95	VssADC	-	GND
96	V1.8ADC	I	1.8V
97	REMOTE	I	Remote control
98	PW_LED	I	POWER LED control
99	PW_LED	I	POWER LED control
100	V1.8C2	I	1.8V
101	VssC2	-	GND
102	TIMER	-	Not used
103	TIMER	-	Not used
104	VER_PROTECT	O	X-ray protect
105	S_REDUCE	O	Sound control
106	P00/I2SDI1	O	Not used
107	POWER	O	SUB POWER control
108	SCL1	I	I2C bus clock
109	SDA1	I/O	I2C bus data
110	V3.3P	I	3.3V
111	ROTATION	O	Rotation
112	3.58/OTHER	O	NTSC 3.58 detection
113	A_MUTE	O	Audio muting
114	4.5/OTHER	O	NTSC 4.43 detection
115	PROT	I	Protect
116	ECO_IN	I	ECO sensor level detection
117	V1.8C1	I	1.8V (Digital)
118	DecV1V8	I	1.8V
119	KEY_IN	I	Key scan data
120	VDO-DET	I	Video DET input
121	VSSC1+P1	-	Digital GND
122	S_V_DET	I	S-Video DET input
123	P25/PWM4	O	GTVA_reset
124	V1.8C3	I	1.8V (Digital)
125	VssC3	-	GND
126	P12/Int2	I	External interrupt
127	SDA0	I/O	I2C bus data (for memory)
128	SCL0	I	I2C bus clock (for memory)

SECTION 3
DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE [AV-21MT16/Z, AV-21MT36/Z]

3.1.1 REMOVING THE TWIN PORT BASS BLASTER UNIT [AV-21MT36/Z]

- Unplug the power supply cord.
  (1) Disconnect the TWIN PORT BASS BLASTER UNIT's cord from the rear of the TV set.
  (2) Remove the TWIN PORT BASS BLASTER UNIT by pulling it upwards.

NOTE:

After removing the TWIN PORT BASS BLASTER UNIT, proceed to the following procedure.

3.1.2 REMOVING THE REAR COVER

- Unplug the power cord.
  (1) Remove the 2 screws **[A]**, 7 screws **[B]** and 4 screws **[C]** as shown in Fig.1.
  (2) Withdraw the REAR COVER toward you.

CAUTION:

When reinstalling the rear cover, carefully push it inward after inserting the MAIN PWB into the REAR COVER groove.

3.1.3 REMOVING THE MAIN PW BOARD

- Remove the REAR COVER.
  (1) Slightly raise the both sides of the MAIN PWB by hand.
  (2) Withdraw the MAIN PWB backward.
  (If necessary, take off the wire clamp and connectors, etc.)

3.1.4 REMOVING THE SPEAKER

- Remove the REAR COVER.
  (1) Remove the 2 screws **[D]** as shown in Fig.1.
  (2) Follow the same steps when removing the other hand SPEAKER.

3.1.5 CHECKING THE MAIN PW BOARD

- To check the back side of the MAIN PWB.
  (1) Pull out the MAIN PWB. (Refer to REMOVING THE MAIN PW BOARD).
  (2) Erect the MAIN PWB vertically so that you can easily check its back side.

CAUTIONS:

- Before turning on power, make sure that the CRT earth wire and other connectors are properly connected.
- When repairing, connect the DEG. COIL to the DEG. connector on the MAIN PWB.

3.1.6 WIRE CLAMPING AND CABLE TYING

(1) Be sure to clamp the wire.
(2) Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

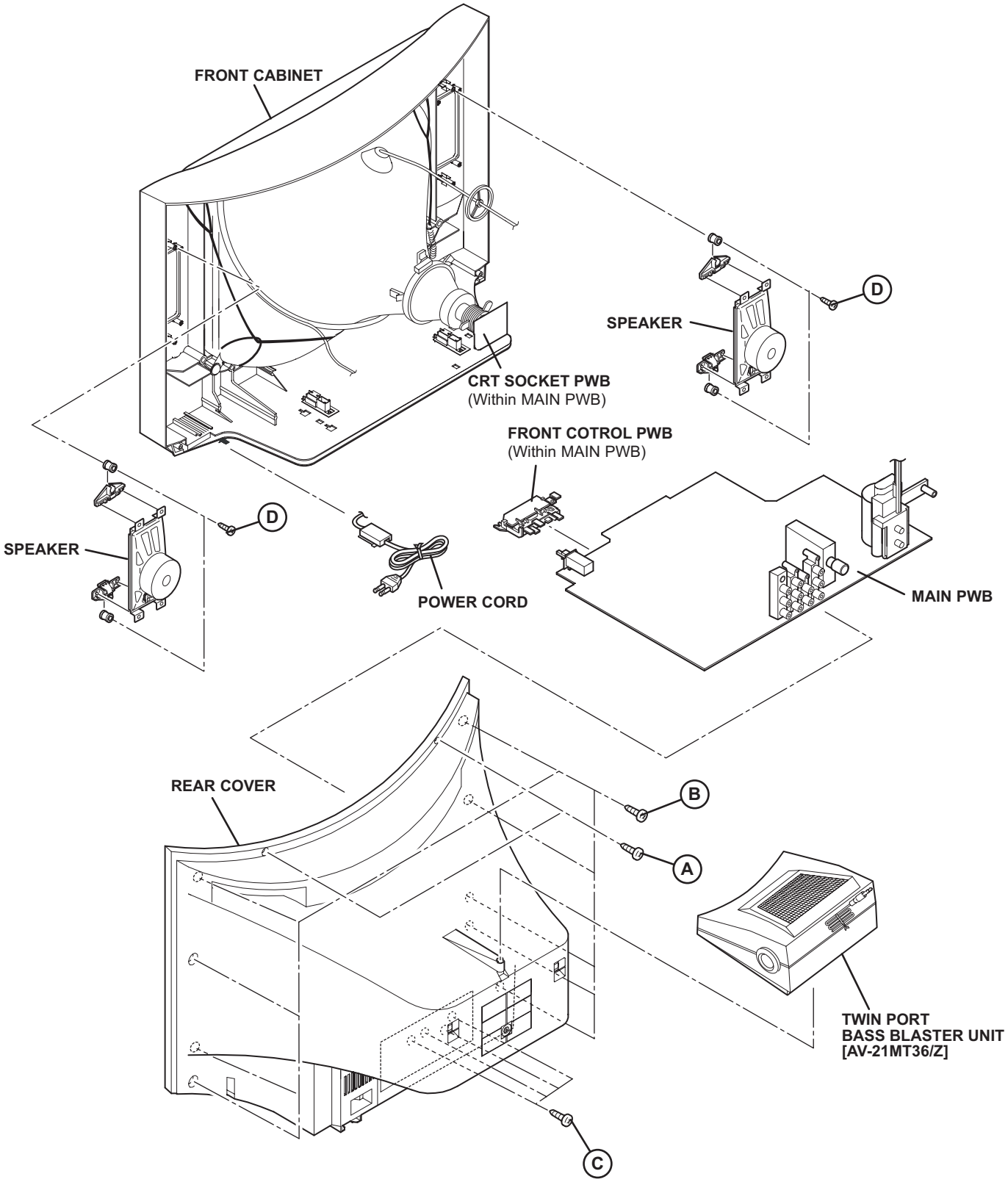

FRONT CABINET
SPEAKER
D
CRT SOCKET PWB
(Within MAIN PWB)
FRONT COTROL PWB
(Within MAIN PWB)
SPEAKER
D
POWER CORD
MAIN PWB
REAR COVER
B
A
TWIN PORT
BASS BLASTER UNIT
[AV-21MT36/Z]
C

Fig.1

3.2 DISASSEMBLY PROCEDURE [AV-25MT16/Z]

3.2.1 REMOVING THE REAR COVER

- Unplug the power cord.
  (1) Remove the 11 screws **[A]** and 4 screws **[B]** as shown in Fig.2.
  (2) Withdraw the REAR COVER toward you.

CAUTION:

When reinstalling the rear cover, carefully push it inward after inserting the MAIN PWB into the REAR COVER groove.

3.2.2 REMOVING THE MAIN PW BOARD

- Remove the REAR COVER.
  (1) Slightly raise the both sides of the MAIN PWB by hand.
  (2) Withdraw the MAIN PWB backward.
  (If necessary, take off the wire clamp and connectors, etc.)

3.2.3 REMOVING THE SPEAKER

- Remove the REAR COVER.
  (1) Remove the 2 screws **[C]** as shown in Fig.2.
  (2) Follow the same steps when removing the other hand SPEAKER.

3.2.4 CHECKING THE MAIN PW BOARD

- To check the back side of the MAIN PWB.
  (1) Pull out the MAIN PWB. (Refer to REMOVING THE MAIN PW BOARD).
  (2) Erect the MAIN PWB vertically so that you can easily check its back side.

CAUTIONS:

- Before turning on power, make sure that the CRT earth wire and other connectors are properly connected.
- When repairing, connect the DEG. COIL to the DEG. connector on the MAIN PWB.

3.2.5 WIRE CLAMPING AND CABLE TYING

(1) Be sure to clamp the wire.
(2) Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

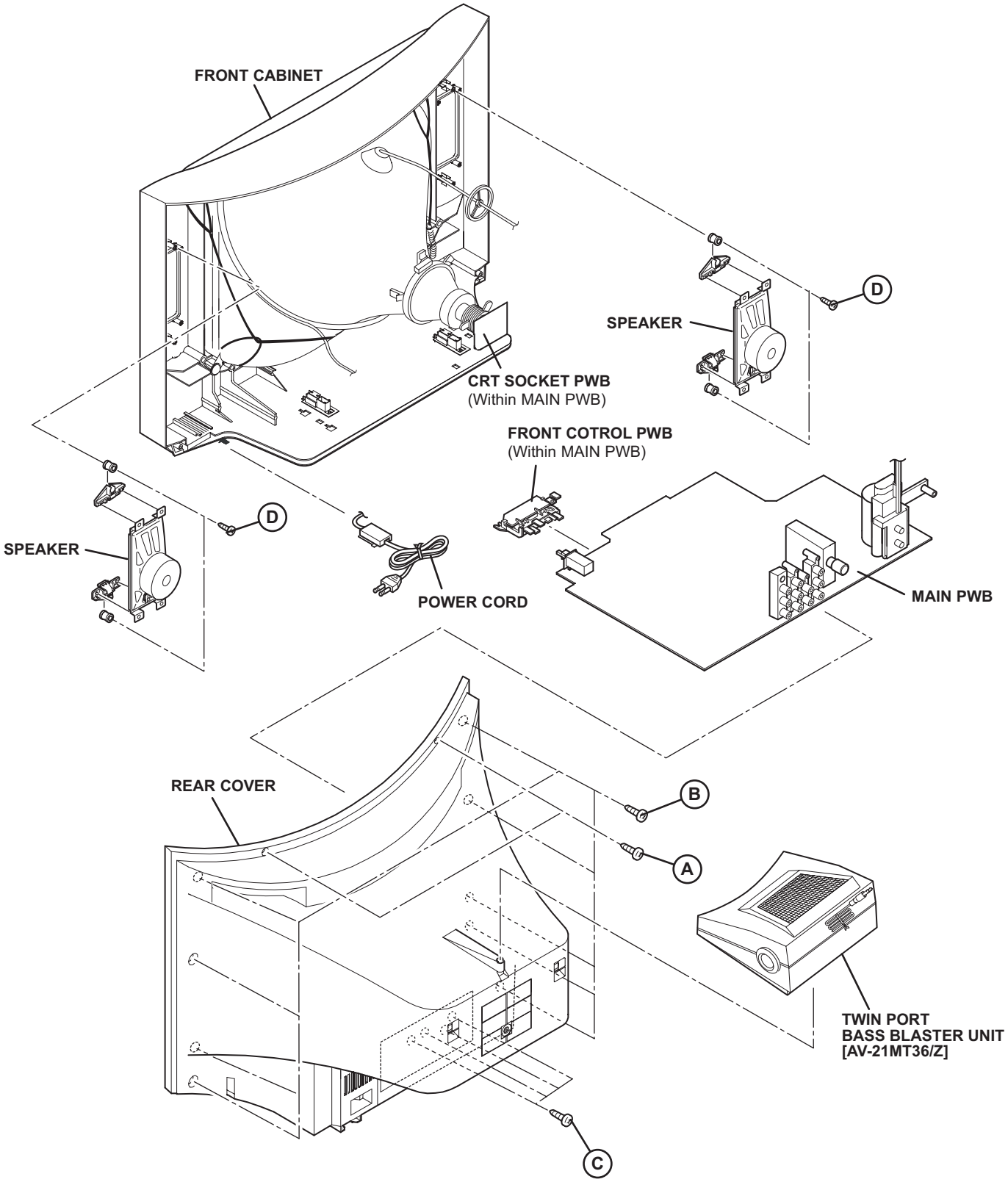

FRONT CABINET
SPEAKER
D
CRT SOCKET PWB
(Within MAIN PWB)
FRONT COTROL PWB
(Within MAIN PWB)
SPEAKER
D
POWER CORD
MAIN PWB
REAR COVER
B
A
TWIN PORT
BASS BLASTER UNIT
[AV-21MT36/Z]
C

Fig.2

3.3 DISASSEMBLY PROCEDURE [AV-29MT16/Z, AV-29MT36/Z]

3.3.1 REMOVING THE TWIN PORT BASS BLASTER UNIT [AV-29MT36/Z]

- Unplug the power supply cord.
  (1) Disconnect the TWIN PORT BASS BLASTER UNIT's cord from the rear of the TV set.
  (2) Remove the TWIN PORT BASS BLASTER UNIT by pulling it upwards.

3.3.2 REMOVING THE REAR COVER

- Unplug the power cord.
  (1) Remove the 16 screws **[A]** as shown in Fig.3.
  (2) Withdraw the REAR COVER toward you.

CAUTION:

When reinstalling the rear cover, carefully push it inward after inserting the MAIN PWB into the REAR COVER groove.

3.3.3 REMOVING THE CHASSIS (CHASSIS BASE AND CONTROL BASE)

- Remove the REAR COVER.
  (1) Slightly raise the both sides of the CHASSIS by hand and remove the 2 claws **[B]** under the CHASSIS from the front cabinet as shown in Fig.3.
  (2) Withdraw the CHASSIS backward.
  (If necessary, take off the wire clamp, connectors etc.)

NOTE:

When conducting a check with power supplied, be sure to confirm that the CRT earth wire is connected to the CRT SOCKET PWB and the MAIN PWB.

3.3.4 REMOVING THE AV TERMINAL BOARD

- Remove the REAR COVER.
  (1) Remove the 4 screws **[C]** as shown in Fig.3.
  (2) When you pull out the AV TERMINAL BOARD in the direction of arrow **[D]** as shown in Fig.3, it can be removed.

3.3.5 REMOVING THE CONTROL BASE

- Remove the REAR COVER.
- Remove the CHASSIS.
  (1) While pushing down the 2 claws **[E]** as shown in Fig. 4 and pull out the CONTROL BASE in the direction of arrow **[F]** as shown in Fig. 4, the control base can be removed.
  (If necessary, take off the wire, connectors etc.)

3.3.6 REMOVING THE SPEAKER

- Remove the REAR COVER.
  (1) Remove the 2 screws **[G]** as shown in Fig.3.
  (2) Withdraw the SPEAKER backward.
  (3) Follow the same steps when removing the other hand SPEAKER.

3.3.7 CHECKING THE MAIN PW BOARD

- To check the back side of the MAIN PWB.
  (1) Pull out the CHASSIS and CONTROL BASE. (Refer to the procedure described in REMOVING THE CHASSIS)
  (2) Put the CHASSIS in upright position with the MAIN PWB's solderside faced to the right. The FBT must be positioned on top. (Viewed from the rear)
  (3) Put the CONTROL PWBs in an appropriate position, taking care not giving tension to the ribbon cables that connect to the MAIN PWB.

CAUTIONS:

- Use insulating materials, if necessary, to avoid possible electrical contacts between PWBs and expose terminals, etc.
- Before turning on power, make sure that the CRT earth wire and other connectors are properly connected.
- When repairing, connect the DEG. COIL to the DEG. connector on the MAIN PWB.

3.3.8 WIRE CLAMPING AND CABLE TYING

(1) Be sure to clamp the wire.
(2) Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

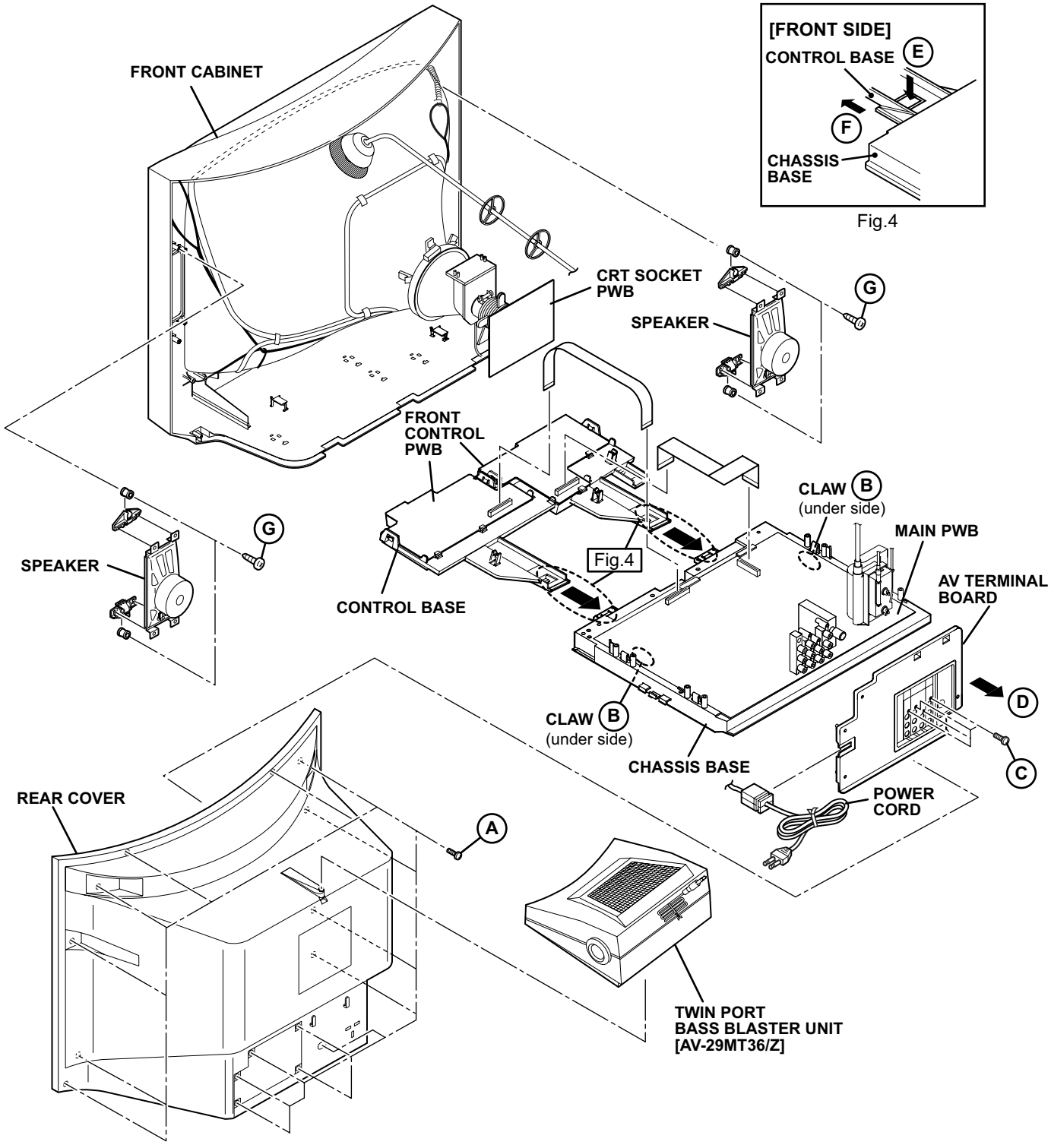

FRONT CABINET
[FRONT SIDE]
CONTROL BASE
E
F
CHASSIS BASE
CRT SOCKET PWB
G
SPEAKER
FRONT CONTROL PWB
CLAW B
(under side)
MAIN PWB
Fig.4
AV TERMINAL BOARD
CONTROL BASE
D
C
CHASSIS BASE
POWER CORD
REAR COVER
A
TWIN PORT BASS BLASTER UNIT [AV-29MT36/Z]

Fig.4

Fig.3

3.4 REPLACEMENT OF MEMORY IC

3.4.1 MEMORY IC

This TV uses the following memory IC.

Memory IC: IC702 on MAIN PWB

The memory IC memorizes data for correctly operating the video and deflection circuits. When replacing the memory IC, be sure to use the same type IC written with the initial values of data. In other words, use the specific IC listed in "PRINTED WIRING BOARD PARTS LIST". For its mounting location, refer to "ADJUSTMENT LOCATIONS".

3.4.2 PROCEDURE FOR REPLACING MEMORY IC

1. Power off

Switch the power off and unplug the power cord from the wall outlet.

2. Replacing the memory IC

Replace the memory IC with new one. Be sure to use the memory IC written with the initial data values.

3. Power on

Plug the power cord into the wall outlet and switch the power on.

4. Check and setting of SYSTEM CONSTANT SET:

(1) Press the [DISPLAY] key and the [PICTURE MODE] key on the remote control unit simultaneously.
The SERVICE MENU screen will be displayed.(See Fig.1.)

(2) In the SERVICE MENU, press the [DISPLAY] key and [PICTURE MODE] key simultaneously. Then, the SYSTEM CONSTANT SET screen will be displayed.(See Fig.2.)

(3) Check whether the setting values of the SYSTEM CONSTANT SET are the same as those indicated in Table 1.
If the value is different, select the setting item with the MENU [▲] / [▼] key, and set the correct value with the MENU [◀] / [▶] key.

(4) Press the [DISPLAY] key twice to return to the normal screen.

5. Receive channel setting

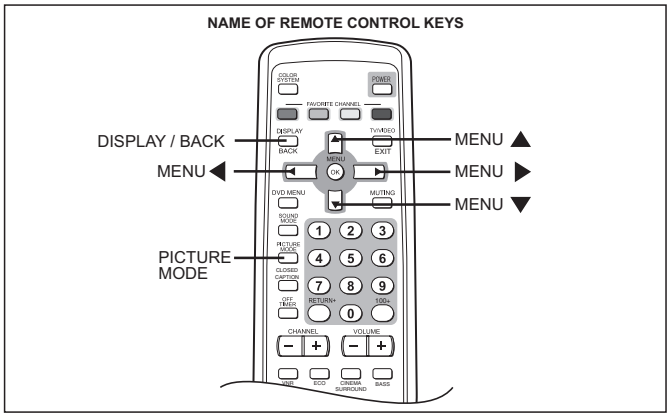
Refer to the **OPERATING INSTRUCTIONS** and set the receive channels (channels preset).

6. User setting

Check the user setting values in Table 2 and Table 3. If setting value is different, set the correct value.
For setting, refer to the **OPERATING INSTRUCTIONS**.

7. Setting of SERVICE MENU

Verify the setting for each setting item in the SERVICE MENU.(See Table 4.) If readjustment is necessary, perform adjustment referring to "ADJUSTMENTS PROCEDURE".



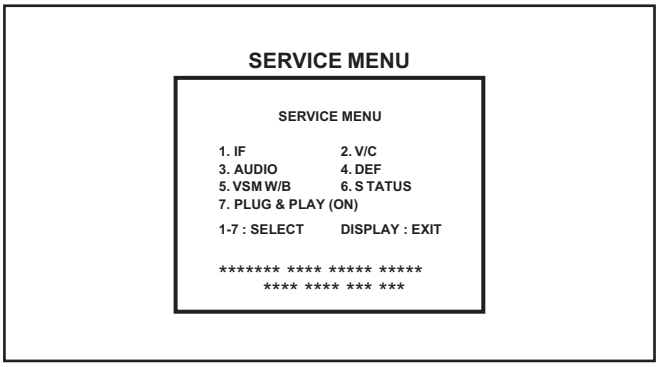


Fig.1

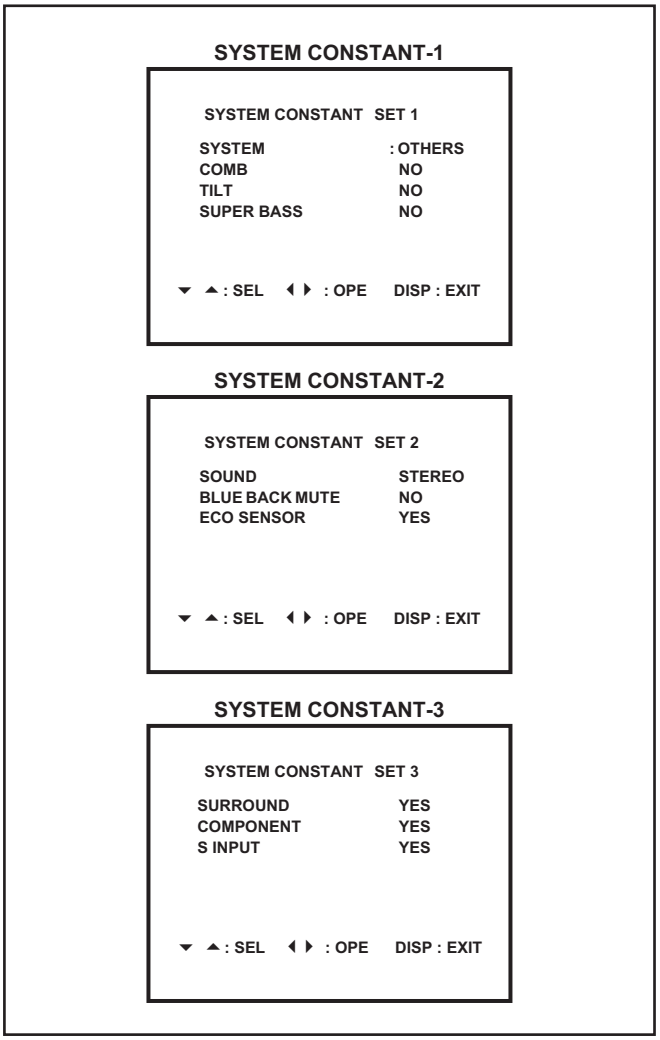

SYSTEM CONSTANT-1
SYSTEM CONSTANT SET 1
SYSTEM : OTHERS
COMB NO
TILT NO
SUPER BASS NO
▼ ▲ : SEL ◀ ▶ : OPE DISP : EXIT
SYSTEM CONSTANT-2
SYSTEM CONSTANT SET 2
SOUND STEREO
BLUE BACK MUTE NO
ECO SENSOR YES
▼ ▲ : SEL ◀ ▶ : OPE DISP : EXIT
SYSTEM CONSTANT-3
SYSTEM CONSTANT SET 3
SURROUND YES
COMPONENT YES
S INPUT YES
▼ ▲ : SEL ◀ ▶ : OPE DISP : EXIT

Fig.2

3.4.3 FACTORY SETTING VALUE

■ SETTING OF SYSTEM CONSTANT SET

Setting item	Setting content	Setting value				
		AV-21MT16/Z	AV-21MT36/Z	AV-25MT16/Z	AV-29MT16/Z	AV-29MT36/Z
SYSTEM	TAIWAN ↔ OTHERS	OTHERS	←	←	←	←
COMB	YES ↔ NO	NO	←	←	YES	←
TILT	YES ↔ NO	NO	←	←	YES	←
SUPER BASS	YES ↔ NO	NO	YES	NO	←	YES
SOUND	STEREO ↔ PB ↔ MONO	STEREO	←	←	←	←
BLUE BACK MUTE	YES ↔ NO	NO	←	←	←	←
ECO SENSOR	YES ↔ NO	YES	←	←	←	←
SURROUND	YES ↔ NO	YES	←	←	←	←
COMPONENT	YES ↔ NO	YES	←	←	←	←
S INPUT	YES ↔ NO	YES	←	←	←	←

Table 1

■ **SETTING OF BASIC FUNCTIONS**

Setting item	Setting value
POWER	Off
SUB POWER	On
VOLUME	15
INPUT	TV
COLOR SYSTEM	NTSC 3.58
SOUND SYSTEM	M
PICTURE MODE (VSM)	BRIGHT
CINEMA SURROUND (RF)	OFF
OFF TIMER	OFF
CHANNEL POSITION	CH02

Table 2

■ **SETTING OF MENU SCREEN**

Setting item	Setting value
VNR	AUTO
COMPRESS (16:9)	OFF
CHILD LOCK	OFF
BLUE BACK	ON
VIDEO-2 SET	COMPONENT
AUTO PROGRAM	Refer to OPERATING INSTRUCTIONS
EDIT / MANUAL	Refer to OPERATING INSTRUCTIONS
WHITE BALANCE (RF)	COOL
BALANCE	Center
SUPER BASS	ON [AV-21MT36/Z, AV-29MT36/Z]
SOUND MODE (RF)	MUSIC
AI VOLUME	OFF
FAVORITE CH RED	CH02
FAVORITE CH GREEN	CH03
FAVORITE CH YELLOW	CH04
FAVORITE CH BLUE	CH05
AI ECO SENSOR	OFF
AUTO SIGNAL DETECT	ON
DVD PICTURE MODE	OFF
TINT COLOR	Center
WHITE BALANCE (DVD)	COOL
SOUND MODE (DVD)	MUSIC
CINEMA SURROUND (DVD)	OFF

Table 3

■ **SERVICE MENU SETTING ITEMS**

Setting item	Setting value
1. IF	1. VCO 2. DELAY POINT
2. V/C	1. SCREEN 2. CUTOFF(B/G) 3. WDR(R/G/B) 4. BRIGHT(TV/VDO 1/2/3) 5. CONT(TV/VDO 1/2/3/TV 16:9/VDO 16:9) 6. COLOUR(TV/VDO1/2/3) 7. TINT(TV/VDO 1/2/3) 8. SHARP [Do not adjust] 9. Y DELAY [Do not adjust] 10. TINT DVD [Do not adjust] 11. AMP T. SHARP
3. AUDIO **[Do not adjust]**	1. DCXO ADJ 2. NICAM lower ERRLIM 3. NICAM upper ERRLIM 4. A2 ID THR 5. MENU EQUALIZER
4. DEF	1. V-SHIFT 2. V-SLOPE 3. V-SIZE 4. H-CENT 5. H-SIZE 6. TRAPEZ 7. EW-PIN 8. COR-UP 9. COR-LO 10. ANGLE 11. BOW 12. V-S.CR 13. V-LIN 14. V-ZOOM 15. V-SCROLL
5. VSM W/B **(BRIGHT/STANDARD/SOFT)** **(COOL/WARM/NORMAL)**	1. BRIGHT 2. CONT 3. COLOUR 4. SHARP 5. HUE 1. R DRIVE 2. G DRIVE 3. B DRIVE
6. STATUS **[Display only]**	
7. PLUG & PLAY(ON) **[Display only]**	

Table 4

3.5 REPLACEMENT OF CHIP COMPONENT

3.5.1 CAUTIONS

(1) Avoid heating for more than 3 seconds.
(2) Do not rub the electrodes and the resist parts of the pattern.
(3) When removing a chip part, melt the solder adequately.
(4) Do not reuse a chip part after removing it.

3.5.2 SOLDERING IRON

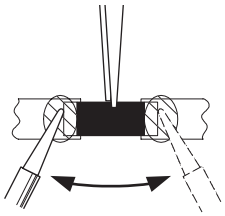
(1) Use a high insulation soldering iron with a thin pointed end of it.
(2) A 30w soldering iron is recommended for easily removing parts.

3.5.3 REPLACEMENT STEPS

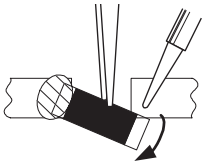
1. How to remove Chip parts

[Resistors, capacitors, etc.]

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



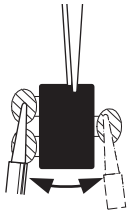
(2) Shift with the tweezers and remove the chip part.



[Transistors, diodes, variable resistors, etc.]

(1) Apply extra solder to each lead.

(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



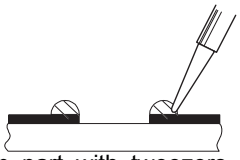
NOTE :

After removing the part, remove remaining solder from the pattern.

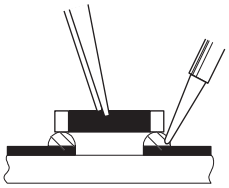
2. How to install Chip parts

[Resistors, capacitors, etc.]

(1) Apply solder to the pattern as indicated in the figure.

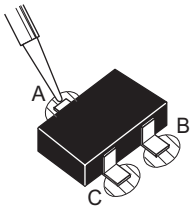


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

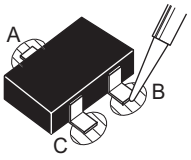


[Transistors, diodes, variable resistors, etc.]

(1) Apply solder to the pattern as indicated in the figure.
(2) Grasp the chip part with tweezers and place it on the solder.
(3) First solder lead **A** as indicated in the figure.



(4) Then solder leads **B** and **C**.



SECTION 4
ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

(1) **You can make the necessary adjustments for this unit with either the remote control unit or with the adjustment equipment and parts as given below.**
(2) **Adjustment with the remote control unit is made on the basis of the initial setting values, however, the new setting values used for setting the screen to its optimum condition may differ from the initial settings.**
(3) Make sure that AC power is turned on correctly.
(4) Turn on the power for the set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
(5) Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
(6) Never touch any adjustment parts, which are not specified in the list for this variable resistors, transformers, trimmer capacitors, etc.

4.2 PRESETTING BEFORE ADJUSTMENT

Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit.

■ **User mode setting position**

Setting item	Setting value
PICTURE MODE (VSM)	BRIGHT
VNR	OFF
AI ECO SENSOR	OFF
BALANCE	Center
CINEMA SURROUND (RF)	OFF
COMPRESS (16:9)	OFF

4.3 MEASURING INSTRUMENT AND FIXTURES

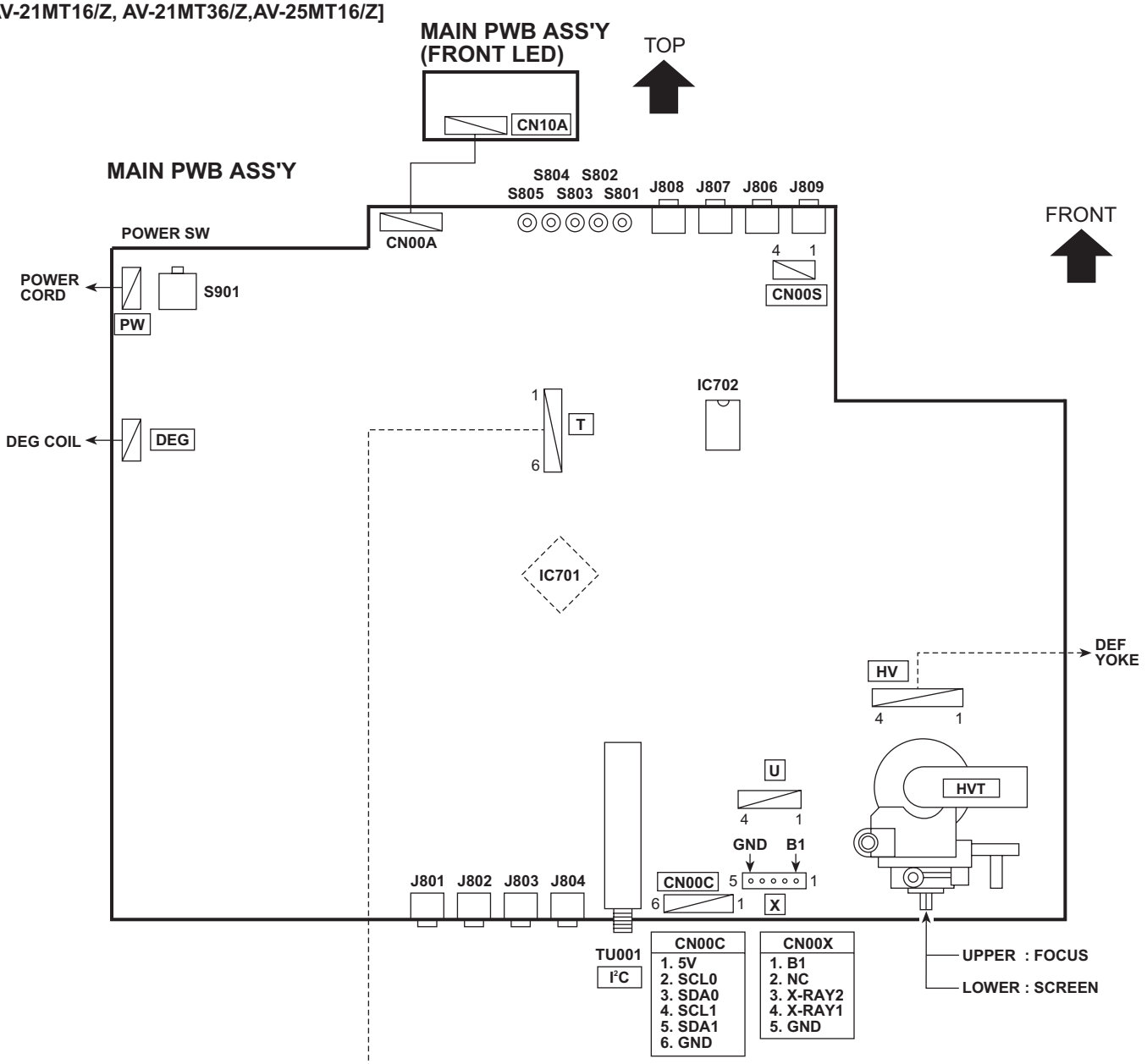
(1) DC voltmeter (or Digital voltmeter)
(2) Oscilloscope
(3) Signal generator (Pattern generator) [PAL/SECAM/NTSC]
(4) Remote control unit

4.4 ADJUSTMENT ITEMS

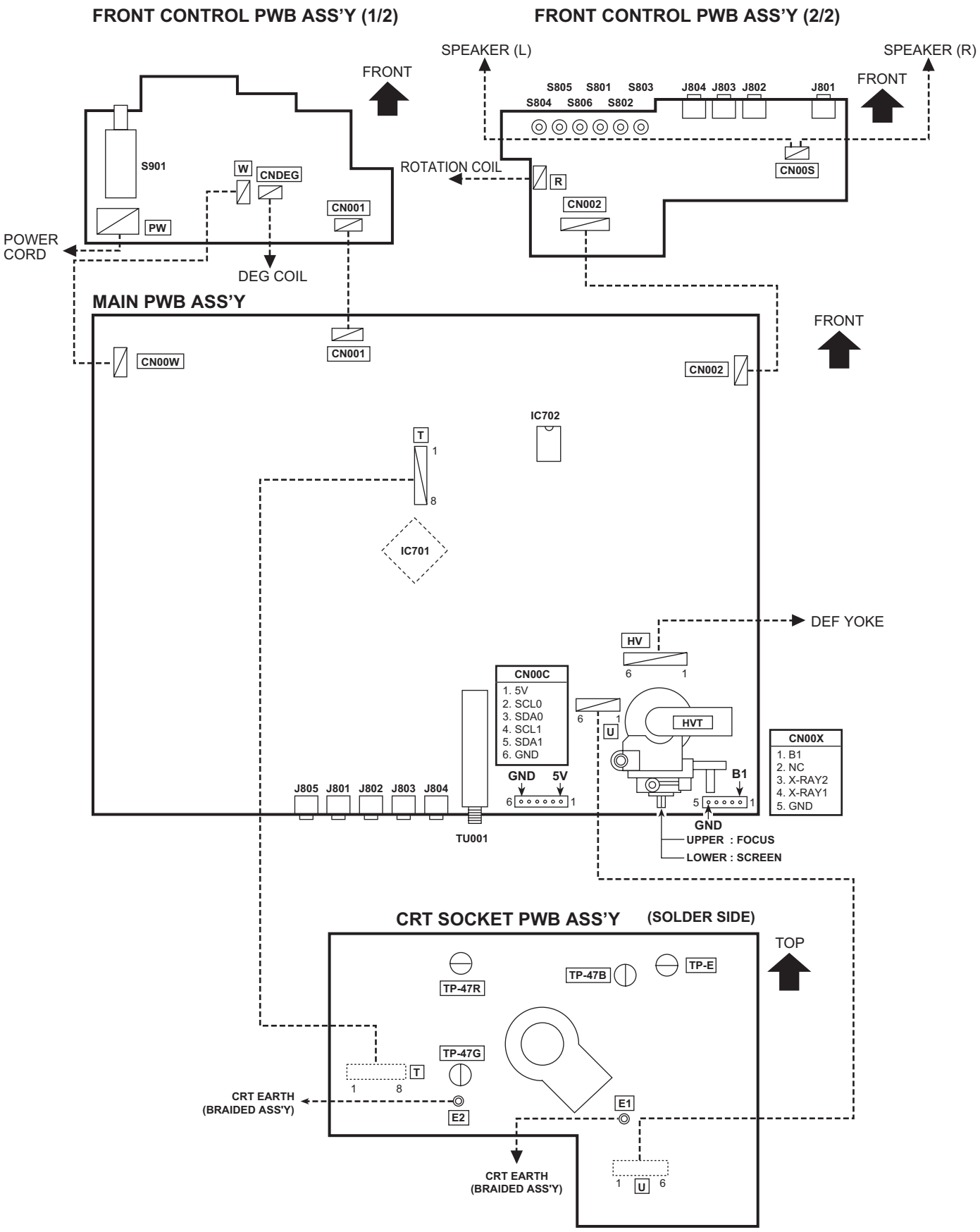
■ B1 VOLTAGE
■ FOCUS ADJUSTMENT
■ IF CIRCUIT ADJUSTMENTS
• IF VCO adjustment
• DELAY POINT (AGC TAKE-OVER) adjustment
■ VIDEO CIRCUIT ADJUSTMENTS
• WHITE BALANCE (Low light) adjustment
• WHITE BALANCE (High light) adjustment
• SUB BRIGHT adjustment
• SUB CONTRAST adjustment
• SUB COLOUR 1 adjustment
• SUB COLOUR 2 adjustment
• SUB TINT 1 adjustment
• SUB TINT 2 adjustment
■ AUDIO SETTING
■ DEFLECTION CIRCUIT ADJUSTMENTS
• V.SLOPE adjustment
• V.POSITION adjustment
• V.HEIGHT adjustment
• H.POSITION adjustment
• H.WIDTH adjustment
• SIDE PIN adjustment
• TRAPEZIUM adjustment
• V. LINEARITY adjustment
• V.S-CURVE adjustment
• CORNER adjustment
• H. PARALLEL adjustment
• H.BOW adjustment
■ VSM PRESET SETTING
■ PURITY AND CONVERGENCE ADJUSTMENTS
• PURITY adjustment
• STATIC CONVERGENCE adjustment
[AV-29MT16/Z, AV-29MT36/Z]
• DYNAMIC CONVERGENCE adjustment
[AV-29MT16/Z, AV-29MT36/Z]

4.5 ADJUSTMENT LOCATIONS

[AV-21MT16/Z, AV-21MT36/Z,AV-25MT16/Z]



[AV-29MT16/Z,AV-29MT36/Z]



4.6 BASIC OPERATION IN SERVICE MENU

Operate the SERVICE MENU with the remote control unit.

4.6.1 SERVICE MENU ITEMS

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of settings:

1. IF	For entering/adjusting the setting values (adjustment values) of the IF circuit.
2. V/C	For entering/adjusting the setting values (adjustment values) of the VIDEO circuit.
3. AUDIO	For entering/adjusting the setting values (adjustment values) of the AUDIO circuit.
4. DEF	For entering/adjusting the setting values (adjustment values) of the DEFLECTION circuit.
5. VSM W/B	For setting the values of STANDARD, SOFT, BRIGHT and COOL, NORMAL, WARM.
6. STATUS	This is not used for service.
7. PLUG & PLAY (ON)	This is not used for service.

4.6.2 BASIC OPERATION IN SERVICE MENU

1. HOW TO ENTER SERVICE MENU

Press the [DISPLAY] key and the [PICTURE MODE] key on the remote control unit simultaneously.
The SERVICE MENU screen will be displayed. (See Fig. 1 on the next page.)

2. SELECTION OF SUB MENU SCREEN

Press one of the keys 1 to 6 on the remote control unit, and select the SUB MENU SCREEN from the SERVICE MENU. (See Fig.1 on the next page.)
SERVICE MENU → SUB MENU

1. IF
2. V/C
3. AUDIO
4. DEF
5. VSM W/B
6. STATUS
7. PLUG & PLAY (ON)

3. METHOD OF SETTING

NOTES:

- Once the setting values are set, they are memorized automatically.
- It must not be adjusted without inputting a signal.

(1) 1. IF

[1.VCO] : Under normal conditions, no adjustment is required.

(a) [1] key	Select **1. IF**.
(b) [1] key	Select **1. VCO**.
(c) [DISPLAY] key	When this is pressed twice, you will return to the SERVICE MENU.

[2.DELAY POINT]

(a) [1] key	Select **1. IF**.
(b) [2] key	Select **2. DELAY POINT**.
(c) MENU [◀] / [▶] key	Adjust the setting value.
(d) [DISPLAY] key	When this is pressed twice, you will return to the SERVICE MENU.

(2) 2. V/C, 3. AUDIO and 4. DEF

(a) [2] ~[4] keys	Select one from **2. V/C**, **3. AUDIO** and **4. DEF**
(b) MENU [▲] / [▼] key	Select setting items.
(c) MENU [◀] / [▶] key	Adjust the setting values of the setting items. Use the number keys on the remote control unit for setting the WHITE BALANCE. For the setting, refer to each item concerned.
(d) [DISPLAY] key	When this is pressed, you will return to the SERVICE MENU.

(3) 5. VSM W/B

(a) [5] keys	Select **5. VSM W/B**.
(b) MENU [OK] key	Select preset items.
(c) MENU [▲] / [▼] key	Adjust setting items.
(d) MENU [◀] / [▶] key	Adjust the setting values of the setting items.
(e) [DISPLAY] key	When this is pressed, you will return to the SERVICE MENU.

(4) 6. STATUS

This is for display only.

(5) 7. PLUG & PLAY (ON)

This is not used for service.

4. Release of SERVICE MENU

After completing the setting, return to the SERVICE MENU by pressing the [DISPLAY] key, then again press the [DISPLAY] key to return to the normal screen.

4.6.3 SERVICE MENU FLOW CHART

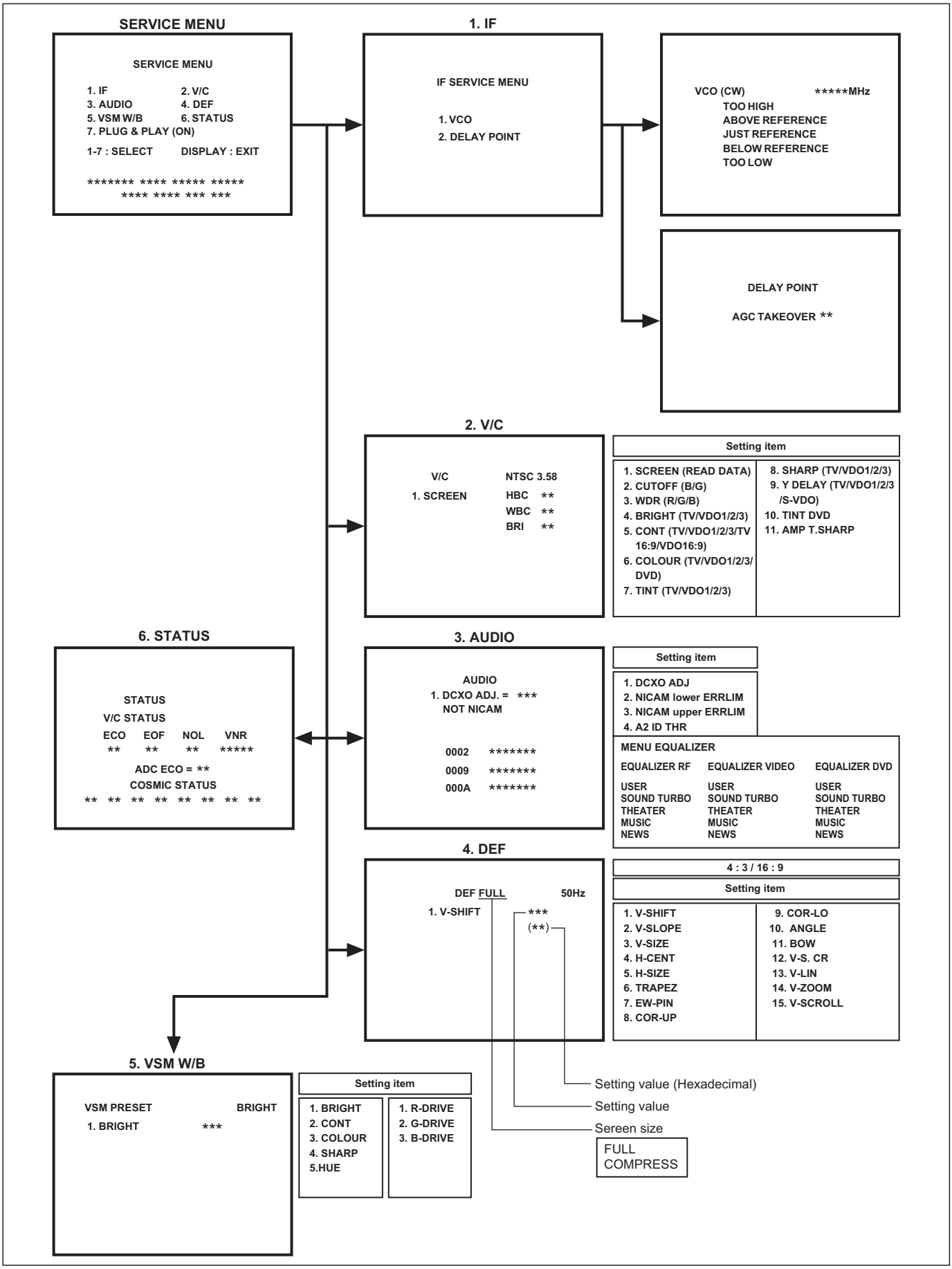


Fig.1

4.7 ADJUSTMENT PROCEDURE

4.7.1 B1 VOLTAGE

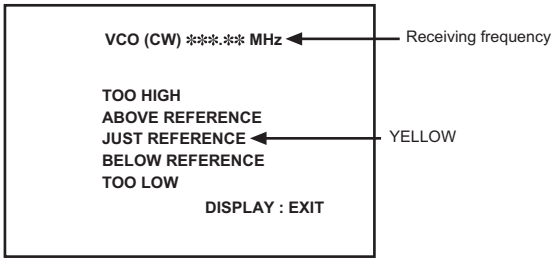
Item	Measuring instrument	Test point	Adjustment part	Description
B1 VOLTAGE check	Signal generator DC voltmeter	B1 (pin 1) GND (pin 5) [CN00X connector in MAIN PWB]		(1) Receive a PAL black and white signal. (2) Connect a DC voltmeter between B1 and GND (between pins 1 and 5 of the connector CN00X). (3) Make sure that the voltage is **DC134.5V ± 2V**.

4.7.2 FOCUS ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS adjustment	Signal generator		FOCUS VR [In HVT]	**Notes:** • Set PICTURE MODE (VSM) to "BRIGHT". • The final adjustment of CONVERGENCE must be done after the FOCUS adjustment. (CONVERGENCE is affected by the FOCUS adjustment.) If any aeviation in CONVERGENCE is found, PURITY must be adjusted to restore the convergence. (1) Receive a PAL crosshatch signal. (2) Adjust the **FOCUS VR** so that the vertical and horizontal lines will be clear and in fine detail on the screen. (3) Make sure that the picture is in focus even when the screen gets darkened.

4.7.3 IF CIRCUIT ADJUSTMENTS

Item	Measuring instrument	Test point	Adjustment part	Description
IF VCO check	Remote control unit		[1. IF] 1. VCO (CW)	**Note:** • Under normal conditions, no adjustment is required. (1) Receive a PAL broadcast signal. (2) Select **1. IF** from the SERVICE MENU. (3) Select **1. VCO**. (4) Check the characters colour of the **JUST REFERENCE** displayed to **yellow**. (5) Press the [DISPLAY] key three times to return to normal screen.



Item	Measuring instrument	Test point	Adjustment part	Description
DELAY POINT (AGC TAKE-OVER) adjustment	Remote control unit		[1. IF] 2. DELAY POINT	(1) Receive a PAL black and white broadcast signal (colour off). (2) Select **1. IF** from the SERVICE MENU. (3) Select **2. DELAY POINT**. (4) Adjust in order to eliminate any noise or beat from the image. Any increase above the initial value produces the noise and any decrease below it produces the beat. (5) Press the [DISPLAY] key three times to return to the normal screen. (6) Turn to other channels and make sure that there are no irregularities.

Adjustment item	Initial setting value			
	NTSC 3.58		OTHERS	
	VHF	UHF	VHF	UHF
2. DELAY POINT (AGC TAKE-OVER)	28*	28*	28*	28*

4.7.4 VIDEO CIRCUIT ADJUSTMENTS

- The setting (adjustment) using the remote control unit is made on the basis of the initial setting values.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- Do not change the initial setting values of the setting (adjustment) items not listed in "ADJUSTMENT PROCEDURE".
- The initial setting values in parenthesis ( ) are fixed offset values, needing no further adjustment.

[AV-21MT16/Z AV-21MT36/Z]

Adjustment item		Variable range	Initial setting value				
			PAL-M	PAL-N	NTSC3.58	COMPONENT (V-2)	
						525i	625i
1. SCREEN	BRI	0 ~ 63	32	32	32	32	32
2. CUTOFF	B	0 ~ 63(-32 ~ +31)	11	11	11	-3	-3
	G	0 ~ 63(-32 ~ +31)	7	7	7	(-5)	(-5)
3. WDR	R	0 ~ 63(-32 ~ +31)	32	32	32	(0)	(0)
	G	0 ~ 63(-32 ~ +31)	32	32	32	(0)	(0)
	B	0 ~ 63(-32 ~ +31)	45	45	45	(0)	(0)
4. BRIGHT	RF	0 ~ 63	39	39	39	---	---
	VIDEO 1(COMPOSITE/S)	(-32 ~ +31)	(+1)	(+1)	(+1)	---	---
	VIDEO 2(COMPONENT)	(-32 ~ +31)	(+1)	(+1)	(+1)	(+2)	(+2)
	VIDEO 3(COMPOSITE)	(-32 ~ +31)	(+1)	(+1)	(+1)	---	---
5. CONT.	RF	0 ~ 63	32	32	32	---	---
	VIDEO 1(COMPOSITE/S)	(-32 ~ +31)	(-3)	(-3)	(-3)	---	---
	VIDEO 2(COMPONENT)	(-32 ~ +31)	(-3)	(-3)	(-3)	(-2)	(-2)
	VIDEO 3(COMPOSITE)	(-32 ~ +31)	(-3)	(-3)	(-3)	---	---
	RF 16:9	(-32 ~ +31)	-2	-2	-2	---	---
	VDO 16:9	(-32 ~ +31)	---	---	---	---	---
6. COLOUR	RF	0 ~ 63(-32 ~ +31)	---	---	37	---	---
	VIDEO 1(COMPOSITE/S)	(-32 ~ +31)	+4	+2	-1	---	---
	VIDEO 2(COMPONENT)	(-32 ~ +31)	+4	+2	-1	+7	+2
	VIDEO 3(COMPOSITE)	(-32 ~ +31)	+4	+2	-1	---	---
7. TINT	RF	0 ~ 63(-32 ~ +31)	---	---	27	---	---
	VIDEO	(-32 ~ +31)	---	---	(+1)	---	---
8. SHARP	RF	0 ~ 63	54	54	54	---	---
	VIDEO	0 ~ 63	54	54	54	40	40
9. Y DELAY	RF	0 ~ 15	7	7	3	---	---
	VIDEO	0 ~ 15	7	7	7	---	---
	S-VIDEO	0 ~ 15	7	10	7	---	---
10. TINT DVD	RF	0 ~ 63(-32 ~ +31)	---	---	(+0)	+5	+0
	VIDEO	(-32 ~ +31)	(+3)	(-10)	(+0)	+5	+0
11. AMP. T.SHARP	RF, VIDEO	0 ~ 63	0	0	0	0	0

[AV-25MT16/Z]

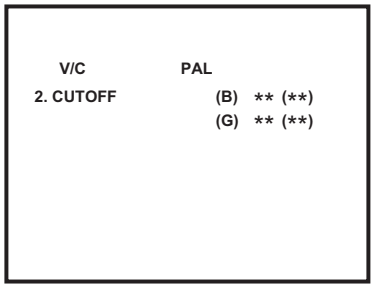
Adjustment item		Variable range	Initial setting value				
			PAL-M	PAL-N	NTSC3.58	COMPONENT (V-2)	
						525i	625i
1. SCREEN	BRI	0 ~ 63	32	32	32	32	32
2. CUTOFF	B	0 ~ 63(-32 ~ +31)	11	11	11	-3	-3
	G	0 ~ 63(-32 ~ +31)	7	7	7	(-5)	(-5)
3. WDR	R	0 ~ 63(-32 ~ +31)	32	32	32	(0)	(0)
	G	0 ~ 63(-32 ~ +31)	32	32	32	(0)	(0)
	B	0 ~ 63(-32 ~ +31)	45	45	45	(0)	(0)
4. BRIGHT	RF	0 ~ 63	39	39	39	---	---
	VIDEO 1(COMPOSITE/S)	(-32 ~ +31)	(+1)	(+1)	(+1)	---	---
	VIDEO 2(COMPONENT)	(-32 ~ +31)	(+1)	(+1)	(+1)	(+2)	(+2)
	VIDEO 3(COMPOSITE)	(-32 ~ +31)	(+1)	(+1)	(+1)	---	---
5. CONT.	RF	0 ~ 63	32	32	32	---	---
	VIDEO 1(COMPOSITE/S)	(-32 ~ +31)	(-3)	(-3)	(-3)	---	---
	VIDEO 2(COMPONENT)	(-32 ~ +31)	(-3)	(-3)	(-3)	(-2)	(-2)
	VIDEO 3(COMPOSITE)	(-32 ~ +31)	(-3)	(-3)	(-3)	---	---
	RF 16:9	(-32 ~ +31)	-2	-2	-2	---	---
	VDO 16:9	(-32 ~ +31)	---	---	---	---	---
6. COLOUR	RF	0 ~ 63(-32 ~ +31)	---	---	37	---	---
	VIDEO 1(COMPOSITE/S)	(-32 ~ +31)	+4	+2	+1	---	---
	VIDEO 2(COMPONENT)	(-32 ~ +31)	+4	+2	+1	+5	+2
	VIDEO 3(COMPOSITE)	(-32 ~ +31)	+4	+2	+1	---	---
7. TINT	RF	0 ~ 63(-32 ~ +31)	---	---	27	---	---
	VIDEO	(-32 ~ +31)	---	---	(+1)	---	---
8. SHARP	RF	0 ~ 63	54	54	54	---	---
	VIDEO	0 ~ 63	54	54	54	40	40
9. Y DELAY	RF	0 ~ 15	7	7	3	---	---
	VIDEO	0 ~ 15	7	7	7	---	---
	S-VIDEO	0 ~ 15	7	10	7	---	---
10. TINT DVD	RF	0 ~ 63(-32 ~ +31)	---	---	(+0)	+5	+0
	VIDEO	(-32 ~ +31)	(+3)	(+0)	(+0)	+5	+0
11. AMP. T.SHARP	RF, VIDEO	0 ~ 63	0	0	0	0	0

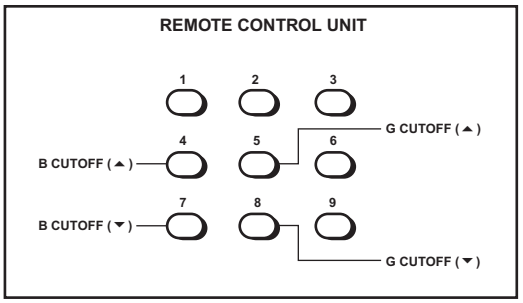
[AV-29MT16/Z AV-29MT36/Z]

Adjustment item		Variable range	Initial setting value				
			PAL-M	PAL-N	NTSC3.58	COMPONENT (V-2)	
						525i	625i
1. SCREEN	BRI	0 ~ 63	32	32	32	32	32
2. CUTOFF	B	0 ~ 63(-32 ~ +31)	11	11	11	-3	-3
	G	0 ~ 63(-32 ~ +31)	7	7	7	(-5)	(-5)
3. WDR	R	0 ~ 63(-32 ~ +31)	32	32	32	(0)	(0)
	G	0 ~ 63(-32 ~ +31)	32	32	32	(0)	(0)
	B	0 ~ 63(-32 ~ +31)	45	45	45	(0)	(0)
4. BRIGHT	RF	0 ~ 63	39	39	39	---	---
	VIDEO 1(COMPOSITE/S)	(-32 ~ +31)	(+1)	(+1)	(+1)	---	---
	VIDEO 2(COMPONENT)	(-32 ~ +31)	(+1)	(+1)	(+1)	(0)	(0)
	VIDEO 3(COMPOSITE)	(-32 ~ +31)	(+2)	(+2)	(+2)	---	---
5. CONT.	RF	0 ~ 63	32	32	32	---	---
	VIDEO 1(COMPOSITE/S)	(-32 ~ +31)	(-2)	(-2)	(-2)	---	---
	VIDEO 2(COMPONENT)	(-32 ~ +31)	(-2)	(-2)	(-2)	(-5)	(-5)
	VIDEO 3(COMPOSITE)	(-32 ~ +31)	(-2)	(-2)	(-2)	---	---
6. COLOUR	RF	0 ~ 63(-32 ~ +31)	42	32	37	---	---
	VIDEO 1(COMPOSITE/S)	(-32 ~ +31)	(+3)	(+5)	(-1)	---	---
	VIDEO 2(COMPONENT)	(-32 ~ +31)	(+3)	(+5)	(-1)	(+5)	(+4)
	VIDEO 3(COMPOSITE)	(-32 ~ +31)	(+3)	(+5)	(-1)	---	---
7. TINT	RF	0 ~ 63(-32 ~ +31)	---	---	27	---	---
	VIDEO	(-32 ~ +31)	---	---	(+3)	---	---
8. SHARP	RF	0 ~ 63	28	28	28	---	---
	VIDEO	0 ~ 63	35	35	35	15	15
9. Y DELAY	RF	0 ~ 15	11	11	14	---	---
	VIDEO	0 ~ 15	9	9	5	---	---
	S-VIDEO	0 ~ 15	9	10	11	---	---
10. TINT DVD	RF	0 ~ 63(-32 ~ +31)	32	(+3)	(+0)	(+2)	(-4)
	VIDEO	(-32 ~ +31)	(+0)	(+3)	(+0)	(+2)	(-4)
11. AMP. T.SHARP	RF, VIDEO	0 ~ 63	0	0	0	0	0

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>WHITE BALANCE (Low light) adjustment</td><td>Signal generator

Remote control unit</td><td></td><td>[2. V/C]
2. CUTOFF (B)
2. CUTOFF (G)

SCREEN VR
[In HVT]</td><td>Note:
• Set PICTURE MODE (VSM) to "BRIGHT".
- COMPOSITE WHITE BALANCE -
(1) Receive a PAL black and white signal (colour off).
(2) Select 2. V/C from the SERVICE MENU.
(3) Select 2. CUTOFF (B) and (G).
(4) Set each value to initial setting value with the [4] / [7] keys and [5] / [8] keys.
(5) Turn the SCREEN VR fully counterclockwise, then slowly turn it clockwise to where a red, blue or green colour is faintly visible.
(6) Use the [4] / [7] and [5] / [8] keys to adjust so that the other 2 colours appear white.
(7) Turn the SCREEN VR to where the single horizontal line glows faintly.
(8) Press the [DISPLAY] key twice to return to the normal screen.
- COMPONENT WHITE BALANCE -
(1) Receive a PAL component black and white signal (colour off).
(2) Select VIDEO-2 SET from the MENU and set VIDEO-2 SET to COMPONENT.
(3) Adjust COMPONENT WHITE BALANCE in the same way as "COMPOSITE WHITE BALANCE".</td></tr>
<tr><td colspan="4"> 


</td><td>
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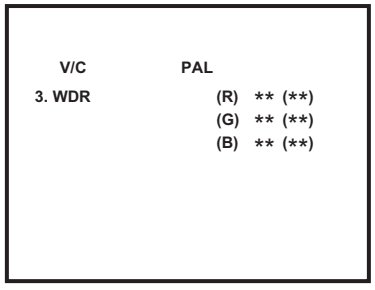
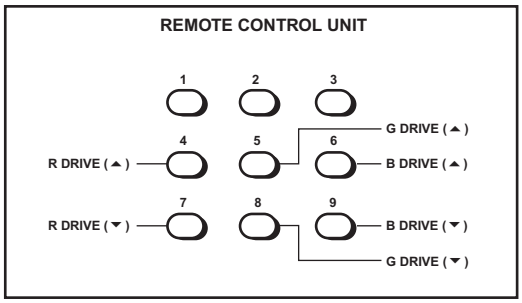
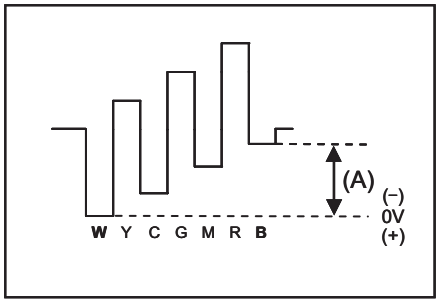
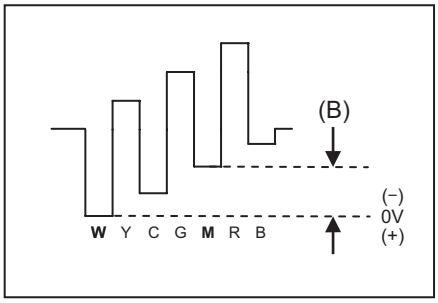
<tr><th colspan="2" rowspan="2">Adjustment Item</th><th rowspan="2">Variable range</th><th colspan="2">Initial setting value</th></tr>
<tr><th>COMPOSITE</th><th>COMPONENT</th></tr>
<tr><td rowspan="2">2. CUT OFF</td><td>B</td><td>0 ~ 63 (-32~+31)</td><td>11</td><td>(-3)</td></tr>
<tr><td>G</td><td>0 ~ 63 (-32~+31)</td><td>7</td><td>(-5)</td></tr>
</table>
</td></tr>
<tr><td>WHITE BALANCE (High light) adjustment</td><td>Signal generator

Remote control unit</td><td></td><td>[2. V/C]
3. WDR (R)
3. WDR (G)
3. WDR (B)</td><td>Notes:
• Proceed to the following adjustment after having completed the WHITE BALANCE (Low light) adjustment.
• Set PICTURE MODE (VSM) to "BRIGHT".
(1) Receive a PAL black and white signal (colour off).
(2) Select 2. V/C from the SERVICE MENU.
(3) Select 3. WDR (R), (G) and (B).
(4) Set each value to initial setting value with the [4] to [9] keys.
(5) Use the [4] to [9] keys to produce a white screen.
(6) Press the [DISPLAY] key twice to return to the normal screen.</td></tr>
<tr><td colspan="4"> 


</td><td>
<table>
<tr><th colspan="2">Adjustment Item</th><th>Variable range</th><th>Initial setting value</th></tr>
<tr><td rowspan="3">3. WDR</td><td>R</td><td>0 ~ 63</td><td>32*</td></tr>
<tr><td>G</td><td>0 ~ 63</td><td>32</td></tr>
<tr><td>B</td><td>0 ~ 63</td><td>45*</td></tr>
</table>
</td></tr>
</table>

Item	Measuring instrument	Test point	Adjustment part	Description
SUB BRIGHT adjustment	Remote control unit		[2. V/C] 4. BRIGHT	**Notes:** • Proceed to the following adjustment after having completed the WHITE BALANCE (Low light) and WHITE BALANCE (High light) adjustment. • Set PICTURE MODE (VSM) to "BRIGHT". (1) Receive a NTSC broadcast. (2) Select **2. V/C** from the SERVICE MENU. (3) Select **4. BRIGHT**. (4) Set the initial setting value. (5) If the brightness is not best with the initial setting value, make fine adjustment until you get the best brightness. (6) Press the [DISPLAY] key twice to return to the normal screen.
SUB CONTRAST adjustment	Remote control unit		[2. V/C] 5. CONT	**Notes:** • Proceed to the following adjustment after having completed the SUB BRIGHT adjustment. • Set PICTURE MODE (VSM) to "BRIGHT". (1) Receive a NTSC broadcast. (2) Select **2. V/C** from the SERVICE MENU. (3) Select **5. CONT**. (4) Set the initial setting value. (5) If the contrast is not best with the initial setting value, make fine adjustment until you get the best contrast. (6) Press the [DISPLAY] key twice to return to the normal screen.
SUB COLOUR 1 adjustment	Signal generator Remote control unit		[2. V/C] 6. COLOUR	**[Method of adjustment without measuring instrument]** **Notes:** • Proceed to the following adjustment after having completed the SUB CONTRAST adjustment. • Set PICTURE MODE (VSM) to "BRIGHT". **- PAL M COLOUR -** (1) Receive a PAL M broadcast. (2) Select **2. V/C** from the SERVICE MENU. (3) Select **6. COLOUR**. (4) Set the initial setting value for PAL COLOUR. (5) If the colour is not best with the initial setting value, adjust until you get the best colour. (6) Press the [DISPLAY] key twice to return to the normal screen. **- PAL N COLOUR -** When adjustment is done for PAL M COLOUR, appropriate values are automatically set for PAL N COLOUR. **- NTSC 3.58 COLOUR -** (1) Receive a NTSC 3.58MHz broadcast. (2) Press the [COLOUR SYSTEM] key to select the NTSC 3.58 colour system. Adjust NTSC 3.58 COLOUR in the same way as for "PAL COLOUR".

Item	Measuring instrument	Test point	Adjustment part	Description
SUB COLOUR 2 adjustment	Signal generator Oscilloscope Remote control unit	TP-47B TP-E [CRT SOCKET PWB]	[2. V/C] 6. COLOUR	**[Method of adjustment using measuring instrument]** **Notes:** • Proceed to the following adjustment after having completed the SUB CONTRAST adjustment. • Set PICTURE MODE (VSM) to "BRIGHT". **- PAL M COLOUR -** (1) Receive a PAL M colour bar signal (full field colour bar 75% white). (2) Select **2. V/C** from the SERVICE MENU. (3) Select **6. COLOUR**. (4) Set the initial setting value of PAL M COLOUR. (5) Connect the oscilloscope to TP-47B and TP-E. (6) Adjust PAL COLOUR to set the value **(A)** in the figure to **+24V [AV-29MT16/Z, AV-29MT36/Z]**, **+34V [AV-25MT16/Z]** or **+30V [AV-21MT16/Z, AV-21MT36/Z]**. **- PAL N COLOUR -** (1) Receive a PAL N colour bar signal (full field color bar 75% white). (2) Select 2. V/C from the SERVICE MENU. (3) Select 6. COLOUR. (4) Set the initial setting value of PAL N COLOUR. (5) Connect the oscilloscope to TP-47B and TP-E. (6) Adjust PAL COLOUR to set the value (A) in the figure to **+25V [AV-29MT16/Z, AV-29MT36/Z]**, **+15V [AV-25MT16/Z]** or **+17V [AV-21MT16/Z, AV-21MT36/Z]**. **- NTSC 3.58 COLOUR -** (1) Receive a NTSC 3.58 colour bar signal (full field colour bar 75% white). (2) Press the [COLOUR SYSTEM] key to select the NTSC 3.58 colour system. (3) Set the initial setting value of NTSC 3.58 COLOUR. (4) Adjust NTSC 3.58 COLOUR to set the value **(A)** in the figure to **+35V [AV-29MT16/Z, AV-29MT36/Z]**, **+25V [AV-25MT16/Z]** or **+26V [AV-21MT16/Z, AV-21MT36/Z]**.
				
SUB TINT 1 adjustment	Signal generator Remote control unit		[2. V/C] 7. TINT	**[Method of adjustment without measuring instrument]** **Notes:** • Proceed to the following adjustment after having completed the SUB CONTRAST adjustment. • Set PICTURE MODE (VSM) to "BRIGHT". **- NTSC 3.58 TINT -** (1) Receive a NTSC 3.58 colour bar signal (full field colour bar 75% white). (2) Press the [COLOUR SYSTEM] key to select the NTSC 3.58 colour system. (3) Select **2. V/C** from the SERVICE MENU. (4) Select **7. TINT**. (5) Set the initial setting value of NTSC 3.58. (6) If you cannot get the best tint with the initial setting value, make fine adjustment until you get the best tint. (7) Press the [DISPLAY] key twice to return to the normal screen.

Item	Measuring instrument	Test point	Adjustment part	Description
SUB TINT 2 adjustment	Signal generator Oscilloscope Remote control unit	TP-47B TP-E [CRT SOCKET PWB]	[2. V/C] 7. TINT	**[Method of adjustment using measuring instrument]** **Notes:** • Proceed to the following adjustment after having completed the SUB CONTRAST adjustment. • Set PICTURE MODE (VSM) to "BRIGHT". **- NTSC 3.58 TINT -** (1) Receive a NTSC 3.58 colour bar signal (full field colour bar 75% white). (2) Press the [COLOUR SYSTEM] key to select the NTSC 3.58 colour system. (3) Select **2. V/C** from the SERVICE MENU. (4) Select **7. TINT**. (5) Set the initial setting value of NTSC 3.58. (6) Connect the oscilloscope to TP-47B and TP-E. (7) Adjust NTSC 3.58 TINT to set the value **(B)** in the figure to **+17V [AV-29MT16/Z, AV-29MT36/Z]**, **+10V [AV-25MT16/Z]** or **+18V [AV-21MT16/Z, AV-21MT36/Z]**. (8) Press the [DISPLAY] key twice to return to the normal screen. **- NTSC 4.43 TINT -** When adjustment is done for NTSC 3.58 TINT, appropriate values are automatically set for NTSC 4.43 TINT.
				

4.7.5 AUDIO SETTING

This submenu is for display only, no adjustment is required.

Function	Item	Setting value
AUDIO	1. DC XO ADJ	F0H
	2. NICAM LOWER ERR LIM	6FH
	3. NICAM UPPER ERR LIM	B0H
	4. A2 ID THR	00H

[AV-21MT16/Z]

Function	MODE	Item	100Hz	300Hz	1kHz	3kHz	8kHz
MENU EQUALIZER	RF	SOUND TURBO	+12	+6	+4	+8	+9
		THEATER	+3	+2	-9	+2	+5
		MUSIC	+6	+3	-2	+3	+8
		NEWS	-1	+3	+6	+1	-4
		USER	0	0	0	0	0
	VIDEO	SOUND TURBO	+12	+6	+4	+8	+12
		THEATER	+3	+2	-9	+2	+5
		MUSIC	+6	+3	-2	+5	+9
		NEWS	-1	+3	+6	+1	-4
		USER	0	0	0	0	0
	DVD	SOUND TURBO	+12	+6	+4	+8	+12
		THEATER	+3	+2	-9	+2	+5
		MUSIC	+6	+3	-2	+5	+9
		NEWS	-1	+3	+6	+1	-4
		USER	0	0	0	0	0

[AV-21MT36/Z]

Function	MODE	Item	100Hz	300Hz	1kHz	3kHz	8kHz
MENU EQUALIZER	RF	SOUND TURBO	+12	+6	+4	+8	+9
		THEATER	+5	+4	-8	+8	+9
		MUSIC	+3	-5	+0	+5	+9
		NEWS	-1	+3	+6	+1	-4
		USER	0	0	0	0	0
	VIDEO	SOUND TURBO	+12	+6	+4	+8	+12
		THEATER	+5	+4	-8	+8	+10
		MUSIC	+3	-5	+0	+5	+10
		NEWS	-1	+3	+6	+1	-4
		USER	0	0	0	0	0
	DVD	SOUND TURBO	+12	+6	+4	+8	+12
		THEATER	+5	+4	-8	+8	+10
		MUSIC	+3	-5	+0	+5	+10
		NEWS	-1	+3	+6	+1	-4
		USER	0	0	0	0	0

[AV-25MT16/Z]

Function	MODE	Item	100Hz	300Hz	1kHz	3kHz	8kHz
MENU EQUALIZER	RF	SOUND TURBO	+12	+6	+4	+8	+12
		THEATER	+3	+2	-9	+2	+5
		MUSIC	+5	+2	-1	+2	+7
		NEWS	-1	+3	+6	+1	-4
		USER	0	0	0	0	0
	VIDEO	SOUND TURBO	+12	+6	+4	+8	+12
		THEATER	+4	+3	-8	+2	+5
		MUSIC	+9	+4	-2	+5	+9
		NEWS	-1	+3	+6	+1	-4
		USER	0	0	0	0	0
	DVD	SOUND TURBO	+12	+6	+4	+8	+12
		THEATER	+3	+2	-9	+2	+5
		MUSIC	+6	+3	-2	+5	+9
		NEWS	-1	+3	+6	+1	-4
		USER	0	0	0	0	0

[AV-29MT16/Z]

Function	MODE	Item	100Hz	300Hz	1kHz	3kHz	8kHz
MENU EQUALIZER	RF	SOUND TURBO	+10	+5	+6	+9	+10
		THEATER	+5	+1	-7	+5	+7
		MUSIC	+5	+1	+2	+5	+8
		NEWS	-1	+3	+6	+1	-4
		USER	0	0	0	0	0
	VIDEO	SOUND TURBO	+12	+5	+6	+9	+12
		THEATER	+6	+2	-6	+5	+7
		MUSIC	+9	+3	+3	+8	+10
		NEWS	-1	+3	+6	+1	-4
		USER	0	0	0	0	0
	DVD	SOUND TURBO	+12	+5	+6	+9	+12
		THEATER	+6	+2	-6	+5	+7
		MUSIC	+9	+3	+3	+8	+10
		NEWS	-1	+3	+6	+1	-4
		USER	0	0	0	0	0

[AV-29MT36/Z]

Function	MODE	Item	100Hz	300Hz	1kHz	3kHz	8kHz
MENU EQUALIZER	RF	SOUND TURBO	+12	+8	+8	+10	+11
		THEATER	+4	+2	-2	+4	+6
		MUSIC	+2	-5	+1	+3	+6
		NEWS	-5	-4	+0	-2	-5
		USER	0	0	0	0	0
	VIDEO	SOUND TURBO	+12	+8	+8	+10	+12
		THEATER	+4	+2	-2	+4	+6
		MUSIC	+2	-5	+1	+8	+10
		NEWS	-5	-4	+0	-2	-5
		USER	0	0	0	0	0
	DVD	SOUND TURBO	+12	+8	+8	+10	+12
		THEATER	+4	+2	-2	+4	+6
		MUSIC	+2	-5	+1	+8	+10
		NEWS	-5	-4	+0	-2	-5
		USER	0	0	0	0	0

4.7.6 DEFLECTION CIRCUIT ADJUSTMENTS

- The setting (adjustment) using the remote control unit is made on the basis of the initial setting values.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- When performing deflection circuit adjustment, adjusts PAL signal (fv: 50 Hz) in 4:3 mode and 16:9 mode respectively, and adjust the NTSC signal (fv: 60 Hz) similarly.

Note:

Proceed to the following adjustment after having completed the adjustments of SUB BRIGHT and SUB PICTURE.

■ DEF

[AV-21MT16/Z, AV-21MT36/Z]

Adjustment item	Variable range		Initial setting value			
			4:3		COMPRESS (16:9)	
	4:3 50Hz	Others	50Hz	60Hz	50Hz	60Hz
1. V-SHIFT	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
2. V-SLOPE	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
3. V-SIZE	0 ~ 63	-32 ~ +31	38*	0*	-14*	0*
4. H-CENT	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
5. H-SIZE	0 ~ 63	-32 ~ +31	0	0	0	0
6. TRAPEZ	0 ~ 63	-32 ~ +31	0	0	0	0
7. EW-PIN	0 ~ 63	-32 ~ +31	0	0	0	0
8. COR-UP	0 ~ 63	-32 ~ +31	0	0	0	0
9. COR-LO	0 ~ 63	-32 ~ +31	0	0	0	0
10. ANGLE	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
11. BOW	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
12. V-S.CR	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
13. V-LIN	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
14. V-ZOOM	0 ~ 63	-32 ~ +31	(+25 ~ +32)	(0)	-13*	+3*
15. V-SCROLL	0 ~ 63	-32 ~ +31	(+32)	(0)	(0)	(0)

[AV-25MT16/Z]

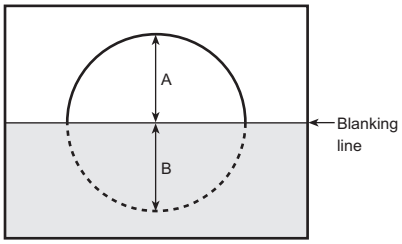
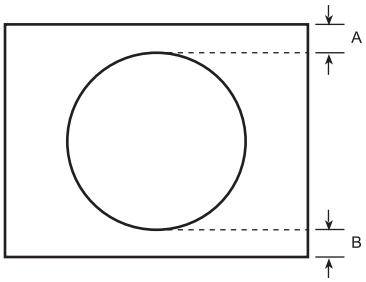
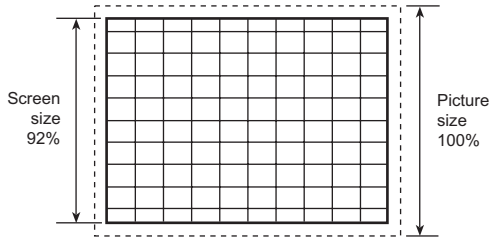
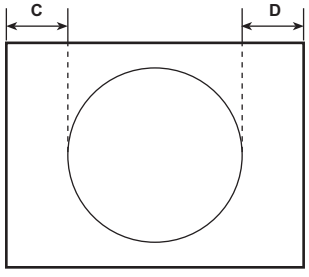
Adjustment item	Variable range		Initial setting value			
			4:3		COMPRESS (16:9)	
	4:3 50Hz	Others	50Hz	60Hz	50Hz	60Hz
1. V-SHIFT	0 ~ 63	-32 ~ +31	36*	0*	0*	0*
2. V-SLOPE	0 ~ 63	-32 ~ +31	35*	0*	0*	0*
3. V-SIZE	0 ~ 63	-32 ~ +31	27*	0*	17*	-1*
4. H-CENT	0 ~ 63	-32 ~ +31	43*	0*	0*	0*
5. H-SIZE	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
6. TRAPEZ	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
7. EW-PIN	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
8. COR-UP	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
9. COR-LO	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
10. ANGLE	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
11. BOW	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
12. V-S.CR	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
13. V-LIN	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
14. V-ZOOM	0 ~ 63	-32 ~ +31	+25~+32	0*	-13*	+4*
15. V-SCROLL	0 ~ 63	-32 ~ +31	+32	0	0	0

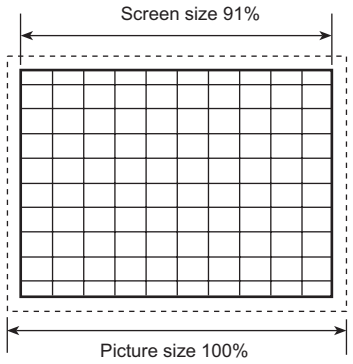
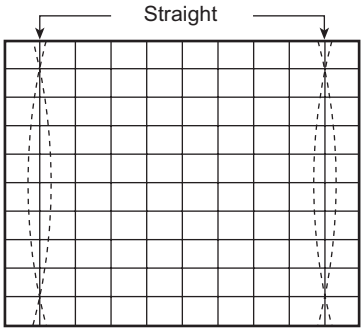
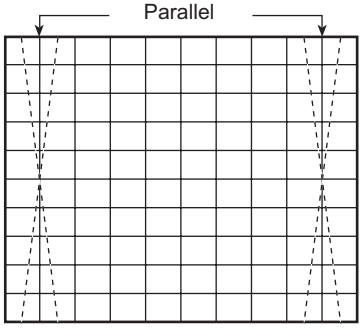
[AV-29MT16/Z AV-29MT36/Z]

Adjustment item	Variable range		Initial setting value			
			4:3		COMPRESS (16:9)	
	4:3 50Hz	Others	50Hz	60Hz	50Hz	60Hz
1. V-SHIFT	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
2. V-SLOPE	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
3. V-SIZE	0 ~ 63	-32 ~ +31	+15*	0*	-4*	-2*
4. H-CENT	0 ~ 63	-32 ~ +31	+35*	0*	0*	0*
5. H-SIZE	0 ~ 63	-32 ~ +31	+45*	0*	0*	0*
6. TRAPEZ	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
7. EW-PIN	0 ~ 63	-32 ~ +31	-12*	0*	0*	0*
8. COR-UP	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
9. COR-LO	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
10. ANGLE	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
11. BOW	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
12. V-S.CR	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
13. V-LIN	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
14. V-ZOOM	0 ~ 63	-32 ~ +31	+25~+32	0*	-23*	+3*
15. V-SCROLL	0 ~ 63	-32 ~ +31	+32	0	0	0

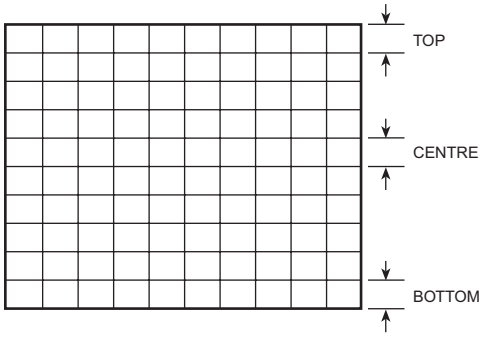
NOTE: The value with an asterisk * is variable for adjustment. The values in parenthesis ( ) are fixed values.
V-ZOOM DATA can adjust follow data range in case measurement line power on is appeared.

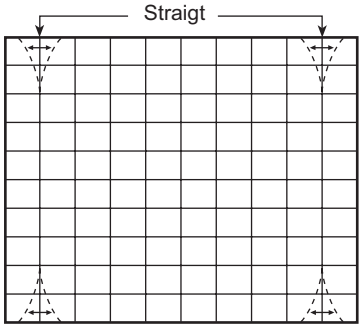
■ **COMPRESS: OFF (4:3)**

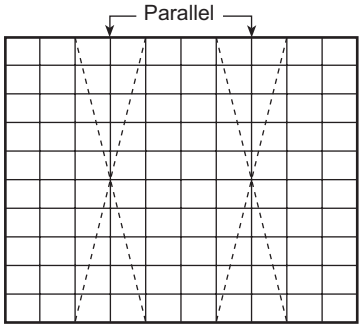
Item	Measuring instrument	Test point	Adjustment part	Description
V. SLOPE adjustment	Signal generator Remote control unit		[4. DEF] 2. V-SLOPE	**- PAL V. SLOPE -** (1) Receive a PAL circle pattern signal of vertical frequency 50Hz. (2) Select **4. DEF** from the SERVICE MENU. (3) Select **2. V-SLOPE**. (4) Set the initial setting value of **2. V-SLOPE**. (5) Adjust **2. V-SLOPE** to make "**A = B**". (6) Press the [DISPLAY] key twice to return to SERVICE MENU screen. **- NTSC V. SLOPE -** (1) Receive a NTSC circle pattern signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V-SLOPE in the same way as for "PAL V-SLOPE".
				
V. POSITION adjustment	Signal generator Remote control unit		[4. DEF] 1. V-SHIFT	**- PAL V. POSITION -** (1) Receive a PAL circle pattern signal of vertical frequency 50Hz. (2) Select **1. V-SHIFT**. (3) Set the initial setting value of **1. V-SHIFT**. (4) Adjust **1. V-SHIFT** to make "**A = B**". **- NTSC V. POSITION -** (1) Receive a NTSC circle pattern signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V. POSITION in the same way as for "PAL V. POSITION".
				
V. HEIGHT adjustment	Signal generator Remote control unit		[4. DEF] 3. V-SIZE	**- PAL V. HEIGHT -** (1) Receive a PAL crosshatch signal. (2) Select **3. V-SIZE**. (3) Set the initial setting value of **3. V-SIZE**. (4) Adjust **3. V-SIZE** to make the vertical screen size to 92% of the picture size. **- NTSC V. HEIGHT -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC V. HEIGHT in the same way as for "PAL V. HEIGHT".
				
H. POSITION adjustment	Signal generator Remote control unit		[4. DEF] 4. H-CENT	**- PAL H. POSITION -** (1) Receive a PAL circle pattern signal. (2) Select **4. H-CENT**. (3) Set the initial setting value of **4. H-CENT**. (4) Adjust **4. H-CENT** to make "**C = D**". **- NTSC H. POSITION -** (1) Receive a NTSC circle pattern signal. (2) Make similar adjustment of NTSC H. POSITION in the same way as for "PAL H. POSITION".
				

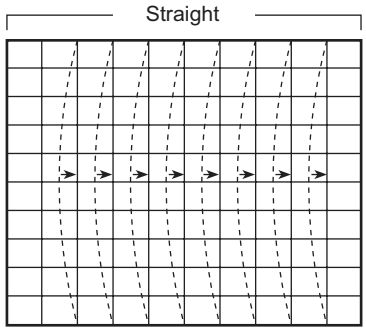
Item	Measuring instrument	Test point	Adjustment part	Description
H. WIDTH adjustment	Signal generator Remote control unit		[4.DEF] 5. H-SIZE	**- PAL H. WIDTH -** (1) Receive a PAL crosshatch signal. (2) Select **5. H-SIZE**. (3) Set the initial setting value of **5. H-SIZE**. (4) Adjust **5. H-SIZE** to make the horizontal screen size to 91% of the picture size. **- NTSC H. WIDTH -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC H. WIDTH in the same way as for "PAL H. WIDTH".
				
SIDE PIN adjustment	Signal generator Remote control unit		[4. DEF] 7. EW-PIN	**- PAL SIDE PIN -** (1) Receive a PAL crosshatch signal. (2) Select **7. EW-PIN**. (3) Set the initial setting value of **7. EW-PIN**. (4) Adjust **7. EW-PIN** so that the first vertical lines at the left and right edges on the screen are straight. **- NTSC SIDE PIN -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC SIDE PIN in the same way as for "PAL SIDE PIN".
				
TRAPEZIUM adjustment	Signal generator Remote control unit		[4.DEF] 6. TRAPEZ	**- PAL TRAPEZIUM -** (1) Receive a PAL crosshatch signal. (2) Select **6. TRAPEZ**. (3) Set the initial setting value of **6. TRAPEZ**. (4) Adjust **6. TRAPEZ** so that the vertical lines at the left and right edges on the screen are in parallel. **- NTSC TRAPEZIUM -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC TRAPEZIUM in the same way as for "PAL TRAPEZIUM".
				

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>V.LINEARITY adjustment</td><td>Signal generator

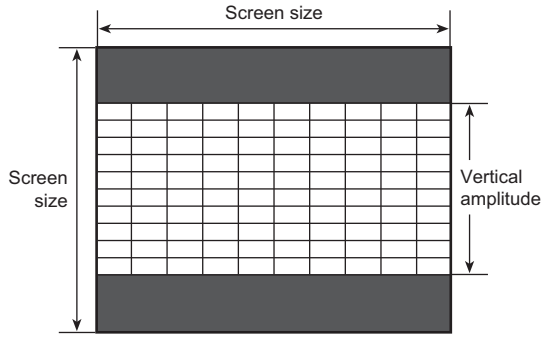
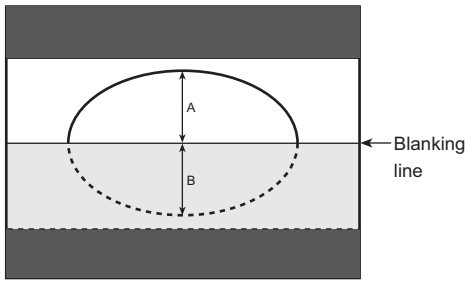
Remote control unit</td><td></td><td>[4. DEF]
12. V-S. CR
13. V-LIN</td><td rowspan="2">- PAL V. LINEARITY -
(1) Receive a PAL crosshatch signal.
(2) Select 12. V-S.CR.
(3) Set the initial setting value of 12. V-S. CR.
(4) Select 13. V-LIN.
(5) Set the initial setting value of 13. V-LIN.
(6) Adjust 12. V-S. CR and 13. V-LIN so that the spaces of each line on TOP, CENTRE and BOTTOM become uniform.
- NTSC V. LINEARITY -
(1) Receive a NTSC crosshatch signal.
(2) Make similar adjustment of NTSC V-S. CR in the same way as for "PAL V-S. CR".</td></tr>
<tr><td colspan="4"> 
</td></tr>
<tr><td>CORNER PIN adjustment</td><td>Signal generator

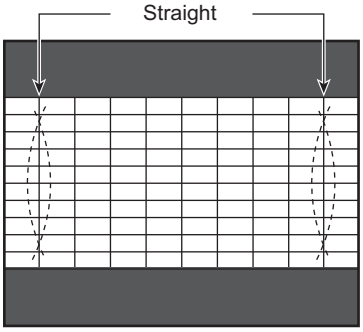
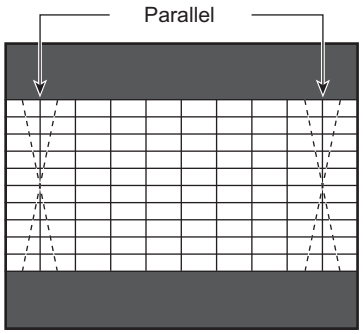
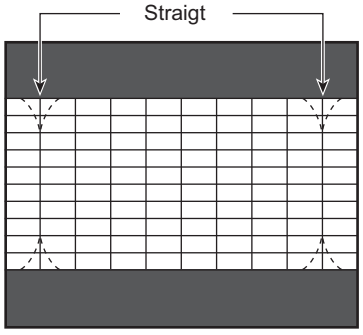
Remote control unit</td><td></td><td>[4. DEF]
8. COR-UP
9. COR-LO</td><td rowspan="2">- PAL CORNER PIN -
(1) Receive a PAL crosshatch signal.
(2) Select 8. COR-UP.
(3) Set the initial setting value of 8. COR-UP.
(4) Select 9. COR-LO.
(5) Set the initial setting value of 9. COR-LO.
(6) Adjust 8. COR-UP and 9. COR-LO so that the vertical lines at the four corners on the screen are straight.
- NTSC CORNER PIN -
(1) Receive a NTSC crosshatch signal.
(2) Make similar adjustment of NTSC CORNER in the same way as for "PAL CORNER".</td></tr>
<tr><td colspan="4"> 
</td></tr>
<tr><td>H. PARALLEL adjustment</td><td>Signal generator

Remote control unit</td><td></td><td>[4.DEF]
10. ANGLE</td><td rowspan="2">- PAL H. PARALLEL -
(1) Receive a PAL crosshatch signal.
(2) Select 10. ANGLE.
(3) Set the initial setting value of 10. ANGLE.
(4) Adjust 10. ANGLE to optimize the trapezium distortion at the centre of the screen.
- NTSC H. PARALLEL -
(1) Receive a NTSC crosshatch signal.
(2) Make similar adjustment of NTSC H. PARALLEL in the same way as for "PAL H. PARALLEL".</td></tr>
<tr><td colspan="4"> 
</td></tr>
</table>

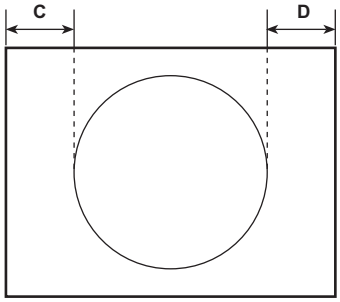
Item	Measuring instrument	Test point	Adjustment part	Description
H. BOW adjustment	Signal generator Remote control unit		[4.DEF] 11. BOW	**- PAL H. BOW -** (1) Receive a PAL crosshatch signal. (2) Select **11. BOW**. (3) Set the initial setting value of **11. BOW**. (4) Adjust **11. BOW** to optimize the horizontal arc distortion. **- NTSC H. BOW -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC H. BOW in the same way as for "PAL H. BOW". (3) Press the [DISPLAY] key twice to return to the normal screen.
				

■ **COMPRESS : ON (16:9)**

Item	Measuring instrument	Test point	Adjustment part	Description
V. HEIGHT adjustment	Signal generator Remote control unit		[4.DEF] 14. V. ZOOM 3. V-SIZE	**- PAL V. HEIGHT -** (1) Receive a PAL crosshatch signal of vertical frequency 50Hz. (2) Press the [MENU] key and select **PICTURE**. (3) Select **PICTURE FEATURES**. (4) Select **COMPRESS (16 : 9)** and set COMPRESS to ON. (5) Select **4. DEF** from the SERVICE MENU. (6) Set the initial setting value of **14. V. ZOOM**. (7) Select **3. V-SIZE**. (8) Set the initial setting value of **3. V-SIZE**. (9) Adjust **3. V-SIZE** to set the vertical amplitude of the image to 280mm. **- NTSC V. HEIGHT -** (1) Receive a NTSC crosshatch signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V. HEIGHT in the same way as for "PAL V. HEIGHT".
				
V. SLOPE adjustment	Signal generator Remote control unit		[4.DEF] 2. V-SLOPE	**- PAL V. SLOPE -** (1) Receive a PAL circle pattern signal of vertical frequency 50Hz. (2) Select **4. DEF** from the SERVICE MENU. (3) Select **2. V-SLOPE**. (4) Set the initial setting value of **2. V-SLOPE**. (5) Adjust **2. V-SLOPE** to make "**A = B**". (6) Press the [DISPLAY] key to return to SERVICE MENU screen. **- NTSC V. SLOPE -** (1) Receive a NTSC circle pattern signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V-SLOPE in the same way as for "PAL V-SLOPE".
				

Item	Measuring instrument	Test point	Adjustment part	Description
SIDE PIN adjustment	Signal generator Remote control unit		[4. DEF] 7. EW-PIN	**- PAL SIDE PIN -** (1) Receive a PAL crosshatch signal. (2) Select **7. EW-PIN**. (3) Set the initial setting value of **7. EW-PIN**. (4) Adjust **7. EW-PIN** so that the first vertical lines at the left and right edges on the screen are straight. **- NTSC SIDE PIN -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC SIDE PIN in the same way as for "PAL SIDE PIN".
				
TRAPEZIUM adjustment	Signal generator Remote control unit		[4. DEF] 6. TRAPEZ	**- PAL TRAPEZIUM PIN -** (1) Receive a PAL crosshatch signal. (2) Select **6. TRAPEZ**. (3) Set the initial setting value of **6. TRAPEZ**. (4) Adjust **6. TRAPEZ** so that the vertical lines at the left and right edges on the screen are in parallel. **- NTSC TRAPEZIUM PIN -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC TRAPEZIUM in the same way as for "PAL TRAPEZIUM".
				
CORNER PIN adjustment	Signal generator Remote control unit		[4. DEF] 8. COR-UP 9. COR-LO	**- PAL CORNER PIN -** (1) Receive a PAL crosshatch signal. (2) Select **8. COR-UP**. (3) Set the initial setting value of **8. COR-UP**. (4) Select **9. COR-LO**. (5) Set the initial setting value of **9. COR-LO**. (6) Adjust **8. COR-UP** and **9. COR-LO** so that the vertical lines at the four corners on the screen are straight. **- NTSC CORNER PIN -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC CORNER in the same way as for "PAL CORNER". (3) Press the [DISPLAY] key twice to return to the normal screen.
				

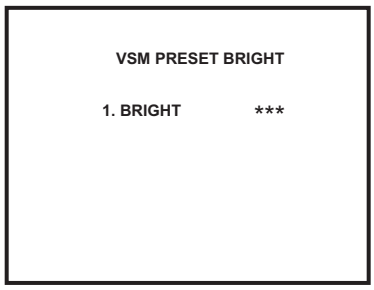
■ **VIDEO - 2 SET: COMPONENT**

Item	Measuring instrument	Test point	Adjustment part	Description
H. POSITION adjustment	Signal generator Remote control unit		[4. DEF] 4. H-CENT	(1) Receive a PAL circle pattern signal to VIDEO-2 component terminal. (2) Select VIDEO-2 SET from the MENU and set VIDEO-2 SET to COMPONENT. (3) Select **4. DEF** from the SERVICE MENU. (4) Select **4. H-CENT**. (5) Set the initial setting value of **4. H-CENT**. (6) Adjust **4. H-CENT** to make "**C=D**". (7) Press the [DISPLAY] key twice to return to the normal screen.
				

4.7.7 VSM PRESET SETTING

Item	Measuring instrument	Test point	Adjustment part	Description
VSM PRESET setting	Remote control unit		[5. VSM W/B] 1. BRIGHT 2. CONT 3.COLOUR 4. SHARP 5. HUE 1. R-DRIVE 2. G-DRIVE 3. B-DRIVE	(1) Select **5. VSM W/B** from the SERVICE MENU. (2) Select BRIGHT with the MENU [OK] key. (3) Set the value of **1. BRIGHT** ~ **5. HUE** to the values shown in the table. (4) Respectively select the VSM PRESET mode for SOFT and STANDARD. (5) Select COOL with the MENU [OK] key. (6) Set the values of **1. R-DRIVE** ~ **3. B-DRIVE** to the value shown in the table. (7) Select the W/B preset for WARM and NORMAL, respectively. (8) Press the [DISPLAY] key twice to return to the normal screen.

SUB MENU 5. VSM W/B



[Setting Values for SUB 5. VSM W/B]
[AV-21MT16/Z, AV-21MT36/Z, AV-25MT16/Z]

VSM preset / Setting item	BRIGHT	STANDARD	SOFT
1. BRIGHT	0	+4	+4
2. CONT	+15	+4	+1
3. COLOUR	0	0	0
4. SHARP	0	0	-10
5. HUE	0	0	0

[AV-29MT16/Z, AV-29MT36/Z]

VSM preset / Setting item	BRIGHT	STANDARD	SOFT
1. BRIGHT	0	0	+2
2. CONT	+15	0	-3
3. COLOUR	0	0	0
4. SHARP	0	0	-10
5. HUE	0	0	0

[AV-21MT16/Z, AV-21MT36/Z]

VSM preset / Setting item	BRIGHT	STANDARD	SOFT
1. R-DRIVE	0	0	+10
2. G-DRIVE	0	+2	-4
3. B-DRIVE	0	-10	-12

[AV-25MT16/Z, AV-29MT16/Z, AV-29MT36/Z]

VSM preset / Setting item	BRIGHT	STANDARD	SOFT
1. R-DRIVE	0	+2	+10
2. G-DRIVE	0	0	-4
3. B-DRIVE	0	-10	-12

4.7.8 PURITY AND CONVERGENCE

■ **PURITY ADJUSTMENT**

Note:

The final adjustment of CONVERGENCE must be done after the FOCUS adjustment. (CONVERGENCE is changed by FOCUS adjustment.)
When makes difference by FOCUS adjustment, should be reconfirming PURITY adjustment.

(1) Demagnetize CRT with the demagnetizer.

(2) Loosen the retainer screw of the deflection yoke.

(3) Remove the wedges.

(4) Input a green raster signal from the signal generator, and turn the screen to green raster.

(5) Move the deflection yoke backward.

(6) Bring the long lug of the purity magnets on the short lug and position them horizontally. (Fig.2)

(7) Adjust the gap between two lugs so that the GREEN RASTER will come into the centre of the screen. (Fig.3)

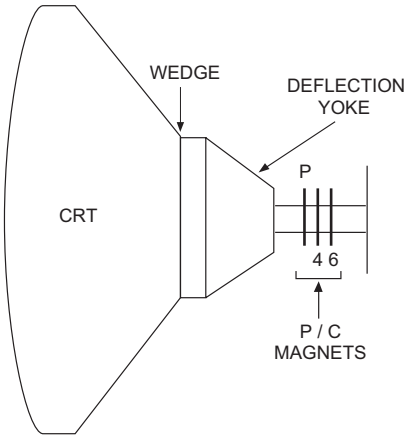
(8) Move the deflection yoke forward, and fix the position of the deflection yoke so that the whole screen will become green.

(9) Insert the wedge to the top side of the deflection yoke so that it will not move.

(10) Input a crosshatch signal.

(11) Verify that the screen is horizontal.

(12) Input red and blue raster signals, and make sure that purity is properly adjusted.



• P/C MAGNETS

P : PURITY MAGNET
4 : 4 POLES (convergence magnets)
6 : 6 POLES (convergence magnets)

Fig.1

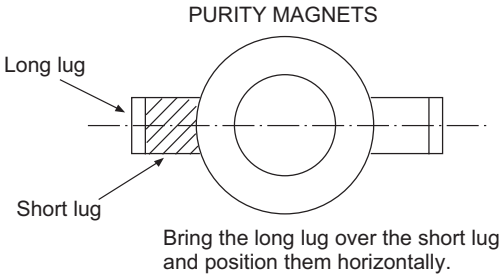


Fig.2

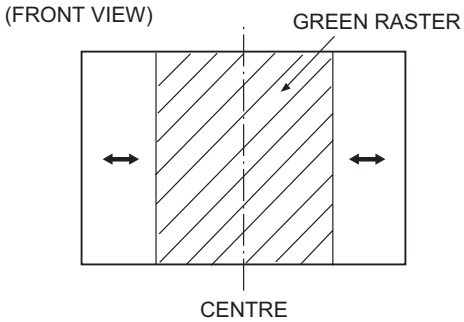


Fig.3

[AV-21MT16/Z, AV-21MT36/Z]

■ STATIC CONVERGENCE ADJUSTMENT

(1) Input a crosshatch signal.

(2) Using 4-pole convergence magnets, overlap the red and blue lines in the centre of the screen (Fig.1) and turn them to magenta (red/blue).

(3) Using 6-pole convergence magnets, overlap the magenta (red/blue) and green lines in the centre of the screen and turn them to white.

(4) Repeat 2 and 3 above, and make best convergence.

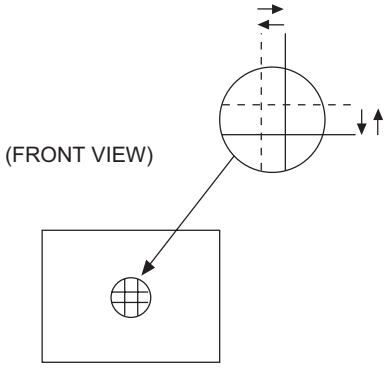


Fig.1

■ DYNAMIC CONVERGENCE ADJUSTMENT

(1) Move the deflection yoke up and down and overlap the lines in the periphery. (Fig. 2)

(2) Move the deflection yoke left to right and overlap the lines in the periphery. (Fig. 3)

(3) Repeat 1 and 2 above, and make best convergence.

(4) Adjust XV by XV coil. (Fig.4)

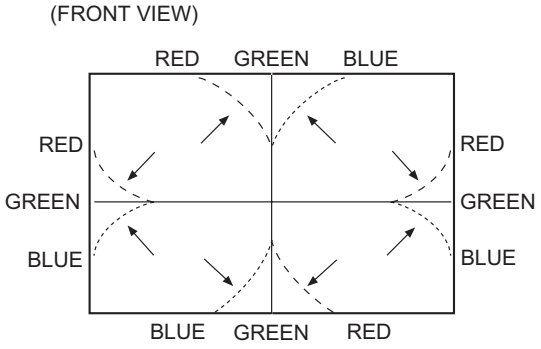


Fig.2

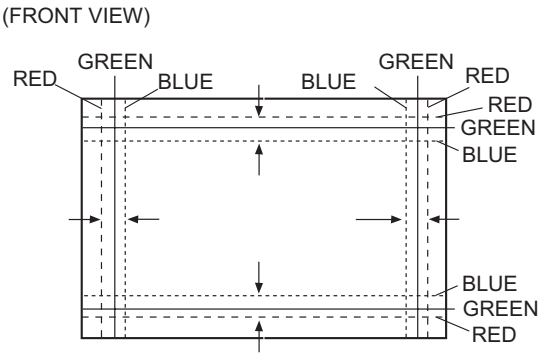


Fig.3

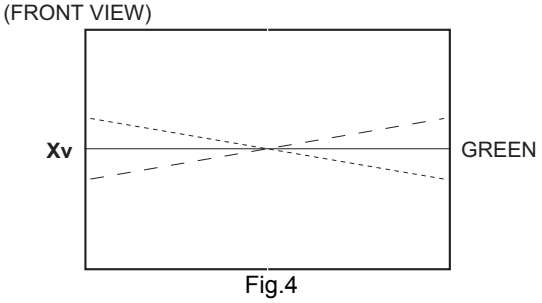


Fig.4

- After adjustment, fix the wedge at the original position. Fasten the retainer screw of the deflection yoke. Fix the P/C magnets with glue.

SECTION 5
TROUBLESHOOTING

5.1 SELF CHECK FUNCTIONS

5.1.1 OUTLINE

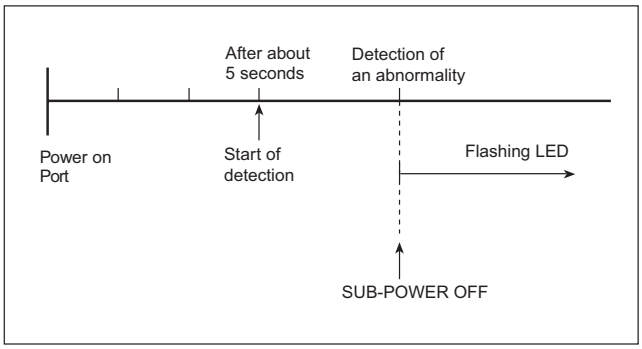
This model has self check functions given below. When an abnormality has been detected, the SUB POWER is turned off and POWER LED flashes to inform of the failure. An abnormality is detected by the signal input state of the control line connected to the microcomputer.

5.1.2 SELF CHECK ITEMS

Check item	Details of detection	Method of detection	State of abnormality
B1 over-current protection	An over-current on the low B1 line is detected.	The main microcomputer detects the possible abnormality at 24-msec. intervals and judges the results in every 16 time. Of the 16 times, if NG is detected more than 9 times, it is judged that there is an abnormality.	When an abnormality has been detected, the SUB-POWER is turned off. While the SUB-POWER is being turned off, the POWER key on the remote control unit is not operational until the power cord is disconnected and connected again.
CRT neck broken protection	Operation of CRT neck protection circuit.		

5.1.3 SELF CHECK INDICATING FUNCTION

When an abnormality has been detected at about 5 seconds after the power was turned on, the SUB POWER is turned off immediately and the POWER LED flashes.



[INDICATION BY THE POWER LED]

Item	LED flashing intervals
B1 over-current protection / CRT neck broken protection	0.3 seconds

JVC
Victor Company of Japan, Limited
Display Category 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama-city, Kanagawa-prefecture, 221-8528, Japan

(No.YA405)

Printed in Japan
VPT

JVC

COLOR TELEVISION

EQUALIZER • CINEMA SURROUND • COMPONENT INPUT

AV-21MT16
AV-21MT36
AV-25MT16
AV-29MT16
AV-29MT36

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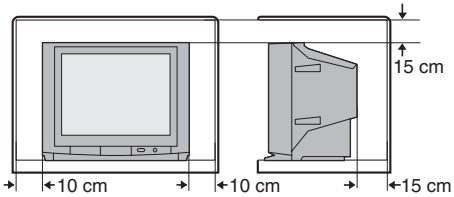
INSTRUCTIONS

GGT0114-001A-H

Thank you for buying this JVC color television.
To make sure you understand how to use your new TV, please read this manual thoroughly before you begin.

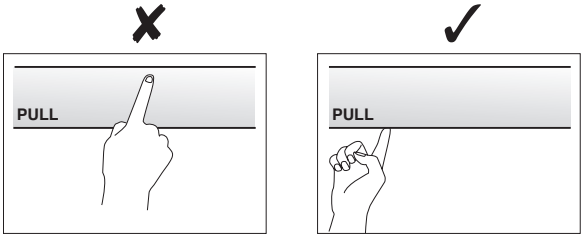
WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
CAUTION: TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS TV.

1 Operate only from the power source indicated on the rear of the TV.
2 Avoid damaging the power cord and mains plug. When unplugging the TV, grasp the mains plug. Do not pull on the power cord.
3 Never block or cover the ventilation openings.
Never install the TV where good ventilation is unattainable.
When installing this TV, leave spaces for ventilation around the TV of more than the minimum distances as shown.

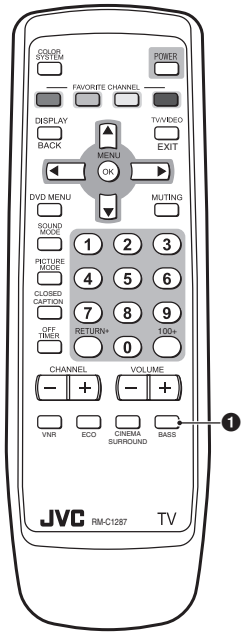


4 Do not allow objects or liquid into the cabinet openings.
5 In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.
6 The surface of the TV screen is easily damaged. Be very careful with it when handling the TV. Should the TV screen become soiled, wipe it with a soft dry cloth. Never rub it forcefully. Never use any cleaner or detergent on it.
7 This TV can be turned on / off power by connecting / disconnecting the AC Plug into AC outlet. While this TV is being installed, enough space should be reserved for connecting / disconnecting the AC Plug into AC outlet by hand.
8 The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

WARNING: <AV-21M, AV-25M, AV-29M Series>
YOU CAN DETACH THE PROTECT SHEET ON THE TOP AND BOTTOM OF FRONT FRAME IF YOU NEEDED. THE FRONT BUTTON DOOR OF THE TV SHOULD BE PULLED OUT FROM ITS BOTTOM. DO NOT PRESS THE UPPER PART, OR YOUR FINGER MAY BE PINCHED.



Knowing your TV's features



Main features

DVD MENU	Just connect DVD player to the television. The television will detect DVD signal and display picture on the screen automatically and you can adjust pictures and sound while you are watching DVD as your desire.
MTS	You can listen the stereo sound or SAP from TV program broadcasting by MTS system. (SAP: Second audio program.)
CLOSED CAPTION	You can display dialog on the screen from TV broadcasting with Closed caption system. You also may be able to display some information in text form if available.
FAVORITE CH (Channel)	You can register up to four favorite channels for quick recall with one press.
AI ECO	TV detects the brightness of your room and automatically adjust the picture brightness to a suitable level for a better eye care.
AI VOLUME	TV adjusts the volume automatically to the same level for all TV channels to avoid sudden change of the volume when selecting different TV channel or selecting Video mode.
VNR	You can reduce the picture noise when viewing noisy TV programs or video sources.

Confirm your TV's functions

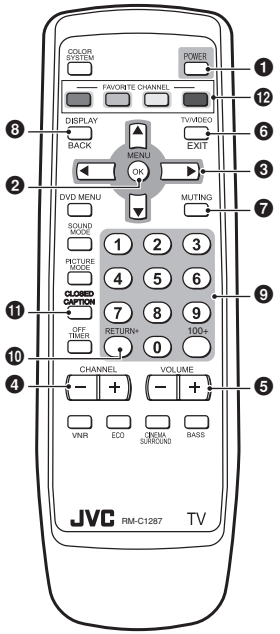
Some functions written in this instruction manual may not be available for your TV.

Please see the chart below and check the functions that are equipped for your TV's model number. The model number is indicated at the rear of your TV. When you press a button concerned to a function that is not available for your TV, it does not work and the logo "Ø" appears on the screen.

NO.	Model No. / Function	AV-21MT16	AV-21MT36	AV-25MT16	AV-29MT16	AV-29MT36
❶	SUPER BASS	—	O	—	—	O
—	PICTURE TILT	—	—	—	O	O

Remote control buttons and basic functions

No.	Press	To
❶	POWER	Turn on or off the TV from standby mode.
❷	MENU/OK	Display menu and confirm selected function.
❸	▲ / ▼ / ◄ / ►	Select and adjust menu function.
❹	CHANNEL -/+	Select the desired channel number.
❺	VOLUME -/+	Adjust the volume level.
❻	TV/VIDEO EXIT	Select TV or video terminal input. On the other hand, you can use this button to EXIT from the menu.
❼	MUTING	Turn off the volume. Press this button again to resume the volume.
❽	DISPLAY /BACK	Display the program number or video terminal number on the screen. On the other hand, you can use this button to return the previous menu.
❾	0~9, 100+	Select the program number. For three digits program number, press 100+, then press the number button.
❿	RETURN+	a) Return to the frequently view channel with one touch. **1** Choose the channel you want to register. **2** Press and hold RETURN+ button until “RETURN PLUS PROGRAMMED!” appears. To cancel, press and hold RETURN+ button until “RETURN PLUS CANCELED!” appears. b) Return to the previously viewed channel, if you have not set or have canceled the Return channel as above.
⓫	CLOSED CAPTION	Display information in text which are broadcasted by some TV channels.
⓬	FAVORITE CHANNEL (color buttons: red, green, yellow, blue)	Register and recall 4 favorite channels. 1. Choose the TV channel you want to register then press and hold a color button until “FAVORITE CHANNEL ■ PROGRAMMED!" appears. 2. To register other favorite channels, repeat step 1. To recall the favorite channel, press the color button. When the TV is in menu mode, the favorite channel function is not available.



How to operate menus and menus locations

To	Operation	Note
Display the MENU	Press the MENU/OK button ❷.	To exit the MENU, press the DISPLAY/BACK button ❽ or choose EXIT menu or TV/VIDEO/EXIT button ❻.
Display the top menu	Press ▲/▼ buttons ❸ to choose a menu title. Then press MENU/OK button ❷.	Press ▼ button ❸ to display the next page for more functions.
Display the 2nd menu	Press ▲/▼ buttons ❸ to choose a menu title. Then press MENU/OK button ❷.	
Display the 3rd menu	Press ▲/▼ buttons ❸ to choose a menu title. Then press MENU/OK button ❷.	
Return to the previous menu	Press the DISPLAY/BACK button ❽.	–
Choose the setting of a function	Press ▲/▼ buttons ❸ to choose a function. Then press the ◄/► buttons ❸ to change the setting.	Press the TV/VIDEO/EXIT button ❻ to exit from the menu.
Adjust the effect level of a function	Press ▲/▼ buttons ❸ to choose a function. Then press the ◄/► buttons ❸ to adjust the effect level.	
Display the sub menu of a function.	Press the ▲/▼ buttons ❸ to choose a function. Then press MENU/OK button ❷ to display the sub menu.	–

The following chart shows locations of functions in menus. In this manual, location of a function is described as follows:

(MENU) ➔ (Top menu) ➔ (2nd menu)

(MENU) ➔ (Top menu) ➔ (2nd menu) ➔ (3rd menu)

Note: Some functions have the 4th menus as the sub-menus.

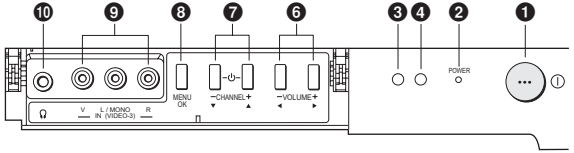
	Top menu	2nd menu	Location	3rd menu	Location
MENU	PICTURE	PICTURE MODE	P.9	—	—
		PICTURE SETTING	P.10	PICTURE	P.10
				BRIGHT	P.10
				DETAIL	P.10
				COLOR	P.10
				TINT	P.10
		WHITE BALANCE	P.10	—	—
		VNR	P.15	—	—
	SOUND	MTS	P.13	—	—
		AI VOLUME	P.13	—	—
		SOUND MODE	P.12	—	—
		EQUALIZER	P.13	—	—
		BALANCE	P.12	—	—
		CINEMA SURROUND	P.13	—	—
		SUPER BASS	P.12	—	—
	FEATURES	DVD MENU	P.14	AUTO SIGNAL DETECT	P.14
				DVD PICTURE MODE	P.14
				TINT COLOR	P.14
				WHITE BALANCE	P.14
				SOUND MODE	P.14
				CINEMA SURROUND	P.14
		OFF TIMER	P.15	—	—
		CHILD LOCK	P.15	—	—
		COMPRESS (16:9)	P.11	—	—
		AI ECO SENSOR	P.11	—	—
	INSTALL	SETUP TOUR	P.16	—	—
		AUTO PROGRAM	P.17	—	—
		CHANNEL SUMMARY	P.17	—	—
		COLOR SYSTEM	P.9	—	—
		LANGUAGE	P.16	—	—
		VIDEO-2 SETTING	P.16	—	—
		BLUE BACK	P.11	—	—
		CLOSED CAPTION	P.15	CAPTION	P.15
				TEXT	P.15
		PICTURE TILT	P.11	—	—
	EXIT	—	—	—	—

TV buttons and functions

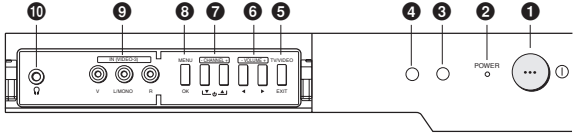
The illustrations shown below is for 21M, 25M and 29M series only, which are used for explanation purpose.
Your TV may not look exactly the same as illustrated.

Front of the TV

21M / 25M series

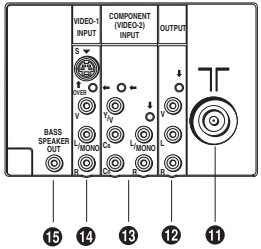


29M series

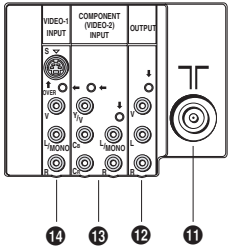


Rear of the TV

21M series



29M series



No.	Button/terminal	Description	Page
❶	⏻ (main power)	Press to turn on or turn off the TV's main power.	—
❷	POWER lamp	Indicate the TV is being turned on or off. No color : TV's main power is being turned off. Red : TV's main power is being turned on. Note: When you turn off the power switch while TV is in standby mode, the light of power lamp will be off in 10 -15 seconds.	—
❸	ECO sensor		—
❹	Remote control sensor		—
❺	TV/VIDEO/EXIT	Press to select TV or Video terminal input or exit from menu.	—
❻	VOLUME -/+	Press to adjust the volume level.	—
❼	CHANNEL -/+	Press to select the desired channel.	—
❽	MENU	Press to display the menu.	—
❾	IN (VIDEO-3)	Video and audio input jacks for VIDEO-3 mode.	18
❿	🎧	Headphone jack.	18
⓫	⊤	Aerial socket.	7
⓬	OUTPUT	Video and audio output jacks. (The component video signal cannot be output.)	18
⓭	COMPONENT (VIDEO-2) INPUT	Video or component video, and audio input jacks for VIDEO-2 mode. You can select the input signal by setting the "VIDEO-2 SETTING" function (see page 16).	18
⓮	VIDEO-1 INPUT	Video or S-VIDEO, and audio input jacks for VIDEO-1 mode	7
⓯	BASS SPEAKER OUT	Twin Port Bass Blaster Unit output terminal.	19

How to operate the menus with the TV button

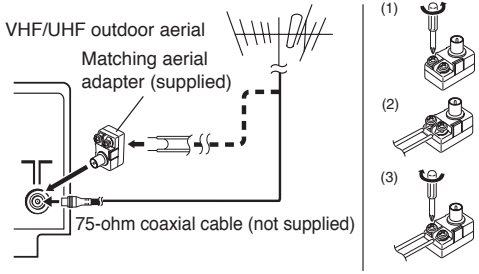
TV button	Work as same as the button on the remote control unit	Note
MENU	MENU/OK button	To display main menu and exit menu after finish setting.
CHANNEL -/+	▼/▲ button	To select menu function.
VOLUME -/+	◄/► button	To adjust the desired function.

Setting up your TV

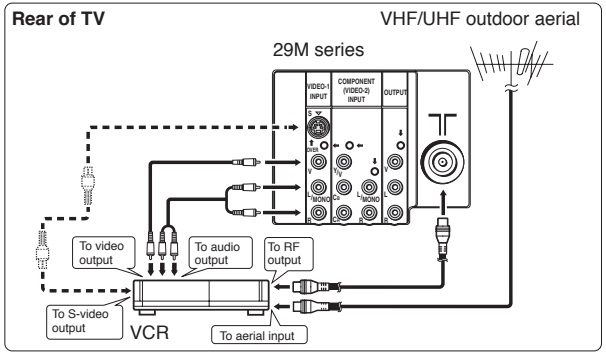
CAUTION

- Turn off the equipment including the TV before connecting.

1 Connecting the aerial cable.

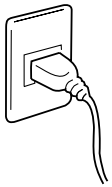


If you connect a VCR, connect the aerial output jack of your VCR and the aerial jack on the TV with aerial cable. Then connect the output jacks of your VCR and the VIDEO-1 input jacks of the TV with the video cable (or S-VIDEO cable if available) and audio cables. For details, see the manual of your VCR.



The illustration shown is just a sample. It may not be same as your TV.

2 Connecting the compatible main plug to the AC outlet.



3 Inserting batteries into the remote control.

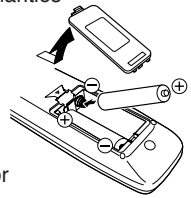
Insert two batteries by following the ⊕ and ⊖ polarities and inserting the ⊖ end first.

CAUTION:

Follow the cautions printed on the batteries.

Notes:

- Use AA/R6/UM-3 dry cell batteries.
- If the remote control does not work properly, fit new batteries. The supplied batteries are for testing, not regular use.



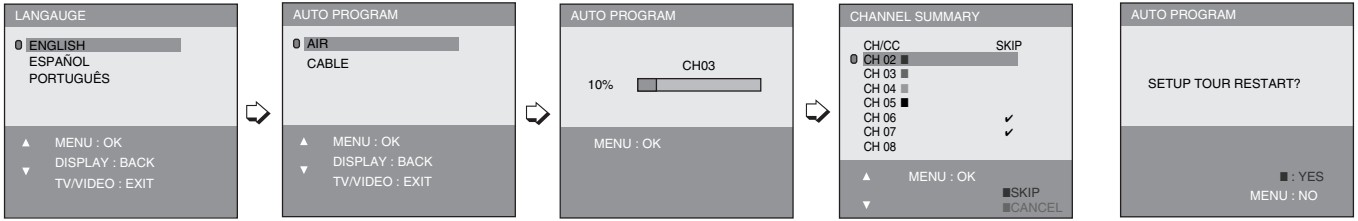
4 Turn on the TV by pressing the main power button.

JVC logo appears on the screen.

JVC logo will appear on the screen again at the phase of “SETUP TOUR RESTART?” function. Then the initial setting can be performed according to page 8.

5 Making the initial settings

Set up your TV by pressing MENU/OK button or waiting for 15 seconds, then operate the TV by following the steps as below:



- Press ▲/▼ button to select your desired language.
- Press ▲,▼ button or CH +/- key to select AIR or CABLE, press the MENU/OK button.
- TV will start searching for the channels.

  To stop AUTO PROGRAM, press MENU/OK button.
- To complete the initial setting, press the MENU/OK button. To set undesired channels to be skipped, see page 17.
- After that, when turn on the TV at the next time. “SETUP TOUR RESTART?” will be displayed. Press the MENU/OK button to cancel the SETUP TOUR RESTART function. If you want to make initial settings again when the next time you turn on the TV, press the Red button to activate the SETUP TOUR RESTART function.

Basic setting for picture

COLOR SYSTEM

You can select the appropriate color system when the picture is not clear or no color appears.
Press the COLOR SYSTEM button to select a setting.

AUTO → NTSC → PAL-M → PAL-N

To operate this function with a menu:

✳ (MENU) ➔ (INSTALL menu) ➔ (COLOR SYSTEM)

For the color system in each country or region, see the table below:

Area	Country or Region	System
South America	Argentina, Paraguay, Uruguay	PAL-N
	Brazil	PAL-M
	Chile, Peru, Bolivia, Colombia, Venezuela, Ecuador, etc.	NTSC

PICTURE MODE

You can choose the desired picture setting with one-touch.
Press the PICTURE MODE button to select a setting.

SOFT	Softens contrast and sharpness.
BRIGHT	Heightens contrast and sharpness.
STANDARD	Standard picture setting.
USER	You can change this picture setting as you like. Select USER and adjust following items in the PICTURE SETTING menu. (PICTURE, BRIGHT, DETAIL, COLOR, TINT*)

When you select to VIDEO-2 Mode. You cannot adjust DETAIL and TINT.

*TINT can only be adjusted in NTSC system.

To operate this function with a menu:

✳ (MENU) ➔ (PICTURE menu) ➔ (PICTURE MODE)

To return the USER setting to the default, press the blue button when the PICTURE SETTING menu appears.

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

PICTURE SETTING

You can adjust the desired picture setting when selecting USER in PICTURE MODE.

1 Select the USER in PICTURE MODE under PICTURE menu.
✳ (MENU) ➔ (PICTURE menu) ➔ (PICTURE MODE) ➔ (USER)

2 Select the PICTURE SETTING in PICTURE menu, then adjust the setting.
✳ (MENU) ➔ (PICTURE menu) ➔ (PICTURE SETTING)

PICTURE	◄ : Lower contrast	► : Higher contrast
BRIGHT	◄ : Darker	► : Brighter
DETAIL	◄ : Softer	► : Higher
COLOR	◄ : Lighter	► : Deeper
TINT*	◄ : Reddish	► : Greenish

When you select to VIDEO-2 Mode. You cannot adjust DETAIL and TINT.

* TINT can only be adjusted in NTSC system.

WHITE BALANCE

You can change the white balance of the picture to better match the type of video being viewed.
Select the WHITE BALANCE in the PICTURE menu, then choose the desired setting.

✳ (MENU) ➔ (PICTURE menu) ➔ (WHITE BALANCE)

NORMAL	Normal white balance.
COOL	Bluish white.
WARM	Reddish white.

When you select to VIDEO-2. You cannot adjust WHITE BALANCE. You can adjust it in DVD Menu.

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

Advanced setting for picture

AI ECO SENSOR (ECO)

You can adjust TV screen contrast according to the brightness of your room.
Press the ECO button to select the desired mode.

OFF	Cancel the function.
MODE-1	Mild contrast (recommended).
MODE-2	Even contrast.
DISPLAY	Display the graphic of the function.

To operate this function with a menu:

✳ MENU ➔ FEATURES menu ➔ AI ECO SENSOR

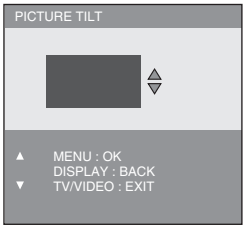
Correcting the Slanting Picture (PICTURE TILT)

You can correct the picture tilt caused by the earth's magnetic force.

1 Select the PICTURE TILT in the INSTALL menu, then press MENU/OK button.

✳ MENU ➔ INSTALL menu ➔ PICTURE TILT

The following display appears.



2 Press the ▲/▼ buttons until the picture become level. Then press the MENU/OK button.

COMPRESS (16:9)

You can convert a normal picture (4:3 aspect ratio) into a wide picture (16:9 aspect ratio).
Select the COMPRESS (16:9) in the FEATURES menu, then choose ON or OFF.

✳ MENU ➔ FEATURES menu ➔ COMPRESS (16:9)

BLUE BACK

You can set the TV to automatically change to a blue screen and mute the sound if the signal is weak or absent, or when there is no input from an antenna.

Select the BLUE BACK in the INSTALL menu, then choose ON or OFF.

✳ MENU ➔ INSTALL menu ➔ BLUE BACK

If you wish to continue viewing the poor picture, cancel the BLUE BACK function.

✳ About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 5.

Basic setting for sound

SOUND MODE

You can choose the desired sound setting.
Select the SOUND MODE in SOUND menu, then choose the setting.

✳ (MENU) ➔ (SOUND menu) ➔ (SOUND MODE)

USER	You can change this sound setting as you like. Select USER and adjust the frequencies in EQUALIZER (100, 300, 1K, 3K, 8K Hz). For details, see “EQUALIZER” on page 13.
SOUND TURBO	Emphasize on low and high frequency levels.
THEATER	Emphasize on movie sound.
MUSIC	Emphasize on music effect.
NEWS	Emphasize on vocal sound.

When you select to VIDEO-2. You cannot adjust SOUND MODE function. You can adjust it in DVD Menu.

BALANCE

You can adjust the volume balance between the left and right speakers.
Select the BALANCE in SOUND menu, then adjust the setting.

✳ (MENU) ➔ (SOUND menu) ➔ (BALANCE)

SUPER BASS (BASS)

You can enjoy powerful bass sound with the Twin Port Bass Blaster unit.

Press the BASS button to select ON or OFF.
To operate this function with a menu:

✳ (MENU) ➔ (SOUND menu) ➔ (SUPER BASS)

For attaching the Twin Port Bass Blaster unit, please see in page 19.

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

Advanced setting for sound

CINEMA SURROUND

You can enjoy an enhanced sound for wider audience.
Press the CINEMA SURROUND button to select a setting.

OFF	Cancel the function.
ON	Listen to sound with wider audience effect.

This function is not available when the SOUND MODE is set to SOUND TURBO.
To operate this function with a menu:

✳ (MENU) ➔ (SOUND menu) ➔ (CINEMA SURROUND)

When you select to VIDEO-2. You cannot adjust CINEMA SURROUND function. You can adjust it in DVD Menu.

MTS

You can enjoy the stereo and SAP broadcasted programs.
Select the MTS in SOUND menu, then choose the desired mode.

✳ (MENU) ➔ (SOUND menu) ➔ (MTS)

STEREO	Select stereo sound.
SAP	Select second audio programs.
MONO	Select monaural sound.

This function is not available in video mode.

EQUALIZER

You can adjust the sound level of each frequencies when selecting USER mode in SOUND MODE.

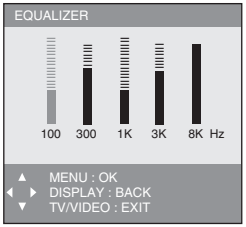
1 Select the USER in SOUND MODE under SOUND menu.

✳ (MENU) ➔ (SOUND menu) ➔ (SOUND MODE) ➔ (USER)

2 Select the EQUALIZER in SOUND menu.

✳ (MENU) ➔ (SOUND menu) ➔ (EQUALIZER)

The following display appears.



3 Select and adjust the desired frequencies.

4 Press the MENU/OK button to exit the menu.

Adjust high frequency will affect higher pitch sound and vice versa.

AI VOLUME

You can adjust the volume of all the channels and video inputs to the same level automatically depends on the strength of signal of the sources.
Select the AI VOLUME in SOUND menu, then choose ON or OFF.

✳ (MENU) ➔ (SOUND menu) ➔ (AI VOLUME)

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

DVD function

AUTO SIGNAL DETECT

When the DVD input signal is detected. The input mode will be changed to VIDEO-2 automatically.

For The DVD player, press the “POWER ON” button of the machine so that the signal can be detected.

For the VCR, press the “POWER ON” button of the machine, and then press the “PLAY” button, so that the signal can be detected and display DVD menu.

Select the AUTO SIGNAL DETECT in DVD MENU under FEATURES menu then choose ON or OFF (Factory setting is ON).

✳ (MENU) ➔ (FEATURES menu) ➔ (DVD MENU) ➔ (AUTO SIGNAL DETECT)

DVD PICTURE MODE

You can enhance the picture quality of the DVD or VIDEO-2.

Select the DVD PICTURE MODE in DVD MENU under FEATURES menu, then choose the desired setting.

✳ (MENU) ➔ (FEATURES menu) ➔ (DVD MENU) ➔ (DVD PICTURE MODE)

OFF	Cancel the function.
CLEAR-1	Select when the disc is with lots of noise (To soften the picture).
CLEAR-2	Select when the disc is with less noise (To sharpen the picture).

TINT COLOR

You can adjust the picture color tone of the DVD.

Select the TINT COLOR in DVD MENU under FEATURES menu, then adjust the level.

✳ (MENU) ➔ (FEATURES menu) ➔ (DVD MENU) ➔ (TINT COLOR)

WHITE BALANCE

You can change the white balance of the DVD picture.

Select the WHITE BALANCE in DVD MENU under FEATURES menu, then choose the desired setting.

✳ (MENU) ➔ (FEATURES menu) ➔ (DVD MENU) ➔ (WHITE BALANCE)

For details, see “WHITE BALANCE” on page 10.

SOUND MODE

You can choose the desired sound setting for the DVD.

Select the SOUND MODE in DVD MENU under FEATURES menu, then choose the desired setting.

✳ (MENU) ➔ (FEATURES menu) ➔ (DVD MENU) ➔ (SOUND MODE)

For details, see “SOUND MODE” on page 12.

CINEMA SURROUND

You can enjoy an enhanced sound for the DVD.

Select the CINEMA SURROUND in DVD MENU under FEATURES menu, then choose the desired setting.

✳ (MENU) ➔ (FEATURES menu) ➔ (DVD MENU) ➔ (CINEMA SURROUND)

For details, see “CINEMA SURROUND” on page 13.

This function is not available when the SOUND MODE is set to SOUND TURBO.

✳✳ When you use VIDEO-2 to display the DVD signal or Video signal then WHITE BALANCE, VNR function in PICTURE menu/DETAIL, TINT function in PICTURE SETTING menu/ SOUND MODE, CINEMA SURROUND function in SOUND menu cannot operate.

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

Customized setting

VNR

You can reduce the picture noise.
Select the VNR in the PICTURE menu, then choose a setting of VNR function.

✳ (MENU) ➔ (PICTURE menu) ➔ (VNR)

OFF	VNR is turned off.
AUTO	Effect of VNR is automatically controlled.
MIN	Effect of VNR becomes minimum level.
MAX	Effect of VNR becomes maximum level.

If you select MAX, the picture becomes softer even if the original picture is sharp.

When you select to VIDEO-2. You cannot adjust VNR function.

CLOSED CAPTION

If they are included in a program, you can view closed captions or text information.
Press the CLOSED CAPTION button to select a setting.

OFF ⟶ CLOSED CAPTION ⟶ TEXT

To operate this function with a menu:

1 Select the CLOSED CAPTION in INSTALL menu, then choose “CAPTION” or “TEXT”.

✳ (MENU) ➔ (INSTALL menu) ➔ (CLOSED CAPTION)

2 Press the ◄/► button to select the desired caption or text channel.

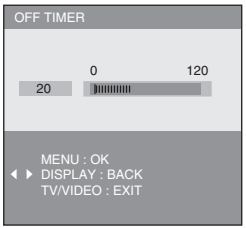
CHILD LOCK

You can disable the front control buttons of the TV.
Select the CHILD LOCK in the FEATURES menu, then choose ON or OFF.

✳ (MENU) ➔ (FEATURES menu) ➔ (CHILD LOCK)

OFF TIMER

You can set the TV to turn off automatically to standby mode after a set time.
Press the OFF TIMER button to select a desired period of time.



You can set the period of time to a maximum of 120 minutes in 10 minutes step.

To operate this function with a menu:

✳ (MENU) ➔ (FEATURES menu) ➔ (OFF TIMER)

When the elapsed of time left one minute, “GOOD NIGHT!” appears on the screen.
You can display the OFF TIMER menu again to confirm or change the remaining time.

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

VIDEO-2 SETTING

You can set the VIDEO-2 SETTING according to the video signal output from the external devices connected to the VIDEO-2 terminal.
Select the VIDEO-2 SETTING in INSTALL menu, then choose a setting (Factory setting is COMPONENT).

✳ MENU ➔ INSTALL menu ➔ VIDEO-2 SETTING

VIDEO	If a normal video signal (composite video signal) is input.
COMPONENT	If a component video signal ($Y/C_B/C_R$) is input.

You must choose a setting follow as signal that you input to VIDEO-2. (If you input the VIDEO Signal or VCR Signal to VIDEO-2, you must choose VIDEO-2 SETTING to VIDEO.)

For connecting methods, see “Additional Preparation” on page 18.

DISPLAY

You can display the program number and video terminal number on the screen.
Press the DISPLAY button to display the indication on the screen.

SETUP TOUR

You may use the SETUP TOUR function to perform the initial setting. When selecting SETUP TOUR, the AUTO PROGRAM menu and CHANNEL SUMMARY menu will be displayed as shown on page 8. But “SETUP TOUR RESTART?” will not be displayed.

Select SETUP TOUR in the INSTALL menu.

✳ MENU ➔ INSTALL menu ➔ SETUP TOUR

LANGUAGE

You can choose your desired on screen display language.
Select the LANGUAGE in the INSTALL menu, then choose a language.

✳ MENU ➔ INSTALL menu ➔ LANGUAGE

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

TV channel presetting

To register the TV channels automatically (AUTO PROGRAM)

You can register the TV channels into the TV's channel list automatically.

1 Display the INSTALL menu.

✳ (MENU) ➔ (INSTALL menu)

2 Choose AUTO PROGRAM, then press the MENU/OK button.

3 Press the ▲/▼ button to select AIR or CABLE, then press the MENU/OK button.
AUTO PROGRAM function starts, and the channels received are registered automatically.

4 The CHANNEL SUMMARY menu appears.

For details of "SETUP TOUR", see page 16.

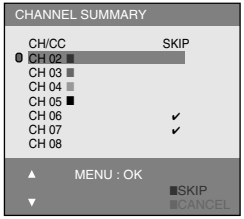
CHANNEL SUMMARY

You can set undesired channels to be skipped.
Channels are to be skipped cannot be selected by the CHANNEL -/+ button.

1 Display the INSTALL menu.

✳ (MENU) ➔ (INSTALL menu)

2 Choose CHANNEL SUMMARY, then press the MENU/OK button.
CHANNEL SUMMARY menu appears.



3 Choose the channel which you want to skip.
The skip can be set to all channels of AIR (CH02-CH69) and CABLE (CC01-CC125).

4 Press the yellow button to skip the channel.
To cancel the skip, press the blue button.

5 Press the MENU/OK button to exit the menu.

✳ About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 5.

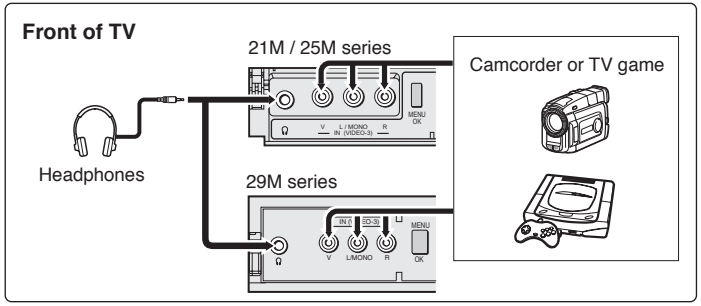
Additional preparation

The illustrations shown in this section are for 21M, 25M and 29M series only, which are used for explanation purpose. Your TV may not look exactly the same as illustrated.

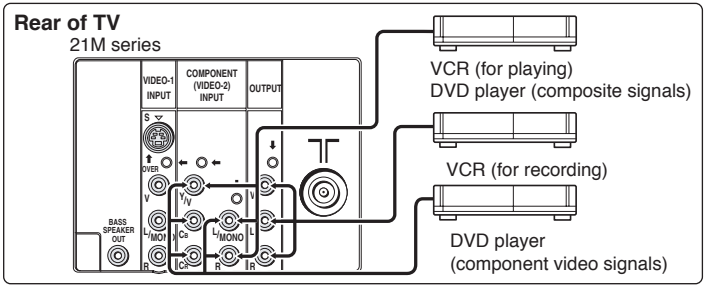
Before connecting

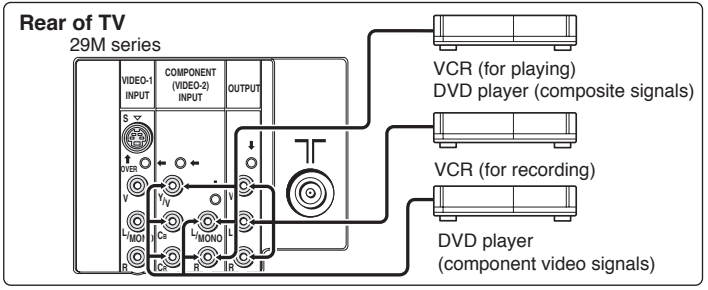
- Read the manuals provided with the devices for the proper connection.
- Turn off all the devices including the TV.
- Note that connecting cables are not supplied.

Connecting to front video input terminal



Connecting to rear component/video input terminal and output terminal





When you use VIDEO-1 INPUT, you should choose to connect S-VIDEO or video input. If S-VIDEO connector and video input are connected at the same time, no picture displays on the screen and the message “PLEASE DISCONNECT VIDEO-1 CABLE!” appears. In this case, you should disconnect either S-VIDEO or video input.

When connecting to COMPONENT (VIDEO-2) input, depending on the connection, choose the appropriate video input using the menu (see page 16).

Attaching the Twin Port Bass Blaster Unit

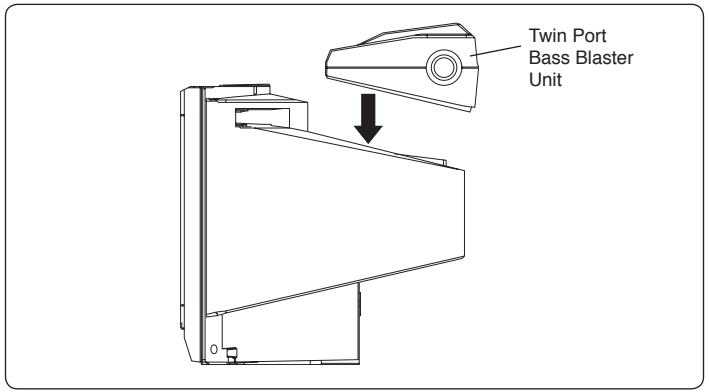
<AV-21MT36/AV-29MT36 only>

The Twin Port Bass Blaster Unit is packaged together with the TV. Before you use the TV, mount the Twin Port Bass Blaster unit correctly on the TV.

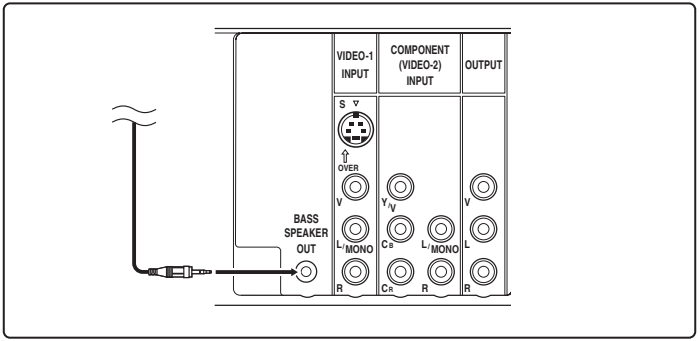
- The SUPER BASS (BASS) function do not work unless the Twin Port Bass Blaster Unit is connected correctly to the TV. For details on the SUPER BASS (BASS) function, see page 12.

1 Place the unit on top of the TV making sure that the mounting pin on the bottom of the unit fits into the mounting hole on the top of the TV.

- When you mount the unit, make sure that the mounting pin fits properly into the mounting hole. Otherwise, it may slide off the top of the TV. This may cause damage or cause unexpected injury.



2 Firmly insert the Twin Port Bass Blaster Unit connector into the BASS SPEAKER OUT terminal.



CAUTION:

The Twin Port Bass Blaster Unit is just placed on top of the TV and is not held in place by a screw. When using the unit, pay attention to the following cautions. Otherwise, the unit or TV may fall over and be damaged, or cause unexpected injury.

- Do not rest your hands or elbows on the Twin Port Bass Blaster Unit.
- Do not move the TV with the Twin Port Blaster Unit mounted on top of the TV. Before you move the TV, be sure to remove the unit.
- Do not move the TV by holding the Twin Port Bass Blaster Unit.

Troubleshooting

If a problem occurs when you are using the TV, check the below troubleshooting guide before calling for repair.

• No picture, no sound	• Deactivate the BLUE BACK function if it is turned on.
• Snowy picture	• Check the aerial cable and its connection with the TV.
• Stripes appear on the picture	• Interference occurs caused by other devices such as an amplifier, personal computer, or a hair drier. Move such devices away from your TV.
• Double-pictures (ghosting) occur	• Interference occurs caused by signal reflecting from mountains or building. Try to adjust the aerial's direction or use a better directionality antenna.
• Poor picture	• Choose the appropriate color system. Refer to "COLOR SYSTEM" on page 9. • Adjust the COLOR or BRIGHT setting. Refer to "PICTURE SETTING" on page 10.
• White and bright still image look as if it were colored	• Inevitable phenomenon due to the nature of the picture tube. This is not a malfunction.
• Top of the image from software products or video tape is distorted	• This is due to the condition of the video signal whereby the image was not recorded properly. This is not a malfunction.
• Poor sound	• Adjust the sound frequency properly. Refer to "EQUALIZER" on page 13.
• Stereo or SAP sound is unclear	• TV channel reception is poor. Change the stereo/ SAP mode to mono sound (see page 13).
• Cannot operate the remote control	• The batteries may be exhausted. Replace with new batteries (see page 7). • Ensure that you are operating the remote less than seven meters from the front of your TV.
• Cannot operate the menus	• Press TV/VIDEO button to return to TV mode and try operating the menus.
• Cannot operate the front control buttons	• Deactivate the CHILD LOCK function if it is turned on (see page 15).
• Color patches appear at the corner of the screen	• This may due to the magnetized device such as a speaker near to your TV. Keep the device apart from your TV. Alternately, you can also use the magnetic-shielded speaker.
• Picture is tilted	• This may due to the earth magnetism. Refer to "PICTURE TILT" on page 11 to correct the tilt.
• Image takes a short period to be displayed	• Image required time to stabilize before display. This is not a malfunction.
• TV may emitted crackling sound	• This is due to a sudden change in temperature and it is not a malfunction. If the crackling sound is too frequent, request your service technician for inspection.
• Feel a slight electric shock when touching the TV screen	• This is due to the static electricity of the picture tube and it will not harm the human body. This is not a malfunction.
• After you connect the signal to VIDEO-2 and playback VCR or DVD Player, the Auto Detect does not work.	• Please check that the AUTO SIGNAL DETECT function is on or off. • Press button (VCR or DVD Player) to turn the machine off and turn it on again; do not turn the machine off and on suddenly. • Inspect the video cable connection on VIDEO-2 that they are connected properly.
• When you are watching another channel that is not VIDEO-2, AUTO SIGNAL DETECT works while VCR or DVD Player was on.	• Inspect the video cable connection on VIDEO-2 that they are connected properly. • In a certain VCR or DVD Player, the function might operate by the discontinuity of the signal.
• While you are watching TV on the other channels, AUTO SIGNAL DETECT works when you press ◄◄, ■, ►, ►► or ▮▮ on the front panel of VCR or DVD Player.	• In a certain VCR or DVD Player, the function might operate by the discontinuity of the signal.
• After TV was on, AUTO SIGNAL DETECT works.	• Video signal from VCR or DVD Player cause the function runs properly to indicate that there are video signal on VIDEO-2 channel.

Specifications

TV RF systems

M, N

Color systems

NTSC, PAL-M, PAL-N

Receiving channels

VHF low channel (VL), VHF high channel (VH), UHF channel (U)
Receives cable channels in mid band, super band and hyper band.

Power requirements

AC 110 to 240 V, 50 Hz / 60 Hz

External input / output

VIDEO-1:	S-video input, VIDEO input, AUDIO L/R input
VIDEO-2/COMPONENT:	VIDEO input, AUDIO L/R input, COMPONENT VIDEO ($Y/C_B/C_R$) input
VIDEO-3:	VIDEO input, AUDIO L/R input
OUTPUT:	VIDEO output, AUDIO L/R output
Headphone jack:	Stereo mini jack (3.5 mm diameter)

Sound-multiplex systems

MTS (Multi-channel Television Sound)

Design and specifications subject to change without notice.

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JVC

0306-FLE-JMT

JVC

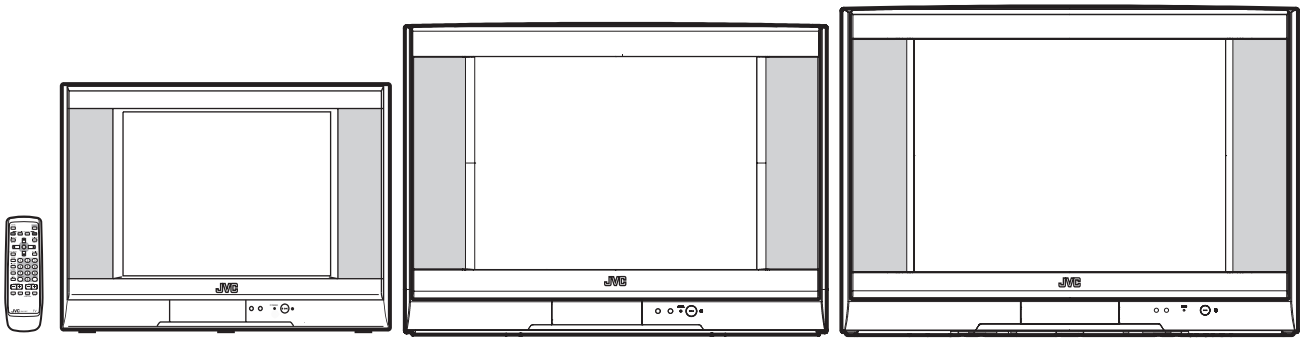
SCHEMATIC DIAGRAMS

FLAT COLOR TELEVISION

AV-21MT16/Z, AV-21MT36/Z, AV-25MT16/Z, AV-29MT16/Z, AV-29MT36/Z

CD-ROM No.SML200607

BASIC CHASSIS
CW2



[AV-21MT16/Z, AV-21MT36/Z] **[AV-25MT16/Z]** **[AV-29MT16/Z, AV-29MT36/Z]**

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No.YA405
2006/7

AV-21MT16/Z, AV-21MT36/Z, AV-25MT16/Z, AV-29MT16/Z, AV-29MT36/Z

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety ciritical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Colour bar signal
(2)Setting positions of each knob/button and variable resistor	: Original setting position when shipped
(3)Internal resistance of tester	: DC 20kΩ/V
(4)Oscilloscope sweeping time	: H ⇒ 20μs / div
	: V ⇒ 5ms / div
	: Othters ⇒ Sweeping time is specified
(5)Voltage values	: All DC voltage values

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board : R1209 → R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

No unit	: [Ω]
K	: [kΩ]
M	: [MΩ]

● Rated allowable power

No indication	: 1/16 [W]
Others	: As specified

● Type

No indication	: Carbon resistor
OMR	: Oxide metal film resistor
MFR	: Metal film resistor
MPR	: Metal plate resistor
UNFR	: Uninflammable resistor
FR	: Fusible resistor

∗ Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

1 or higher	: [pF]
less than 1	: [μF]

● Withstand voltage

No indication	: DC50[V]
Others	: DC withstand voltage [V]
AC indicated	: AC withstand voltage [V]

∗ Electrolytic Capacitors

47/50[Example]: Capacitance value [μF]/withstand voltage[V]

● Type

No indication	: Ceramic capacitor
MM	: Metalized mylar capacitor
PP	: Polypropylene capacitor
MPP	: Metalized polypropylene capacitor
MF	: Metalized film capacitor
TF	: Thin film capacitor
BP	: Bipolar electrolytic capacitor
TAN	: Tantalum capacitor

(3)Coils

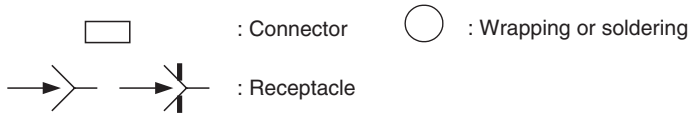
No unit	: [μH]
Others	: As specified

(4)Power Supply

∗ Respective voltage values are indicated

(5)Test point

(6)Connecting method



(7)Ground symbol

⊥ : LIVE side ground

⏚ : ISOLATED(NEUTRAL) side ground

⏚ : EARTH ground

▽ : DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

NOTE

◆ **Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.**
When ordering parts, please use the numbers that appear in the Parts List.

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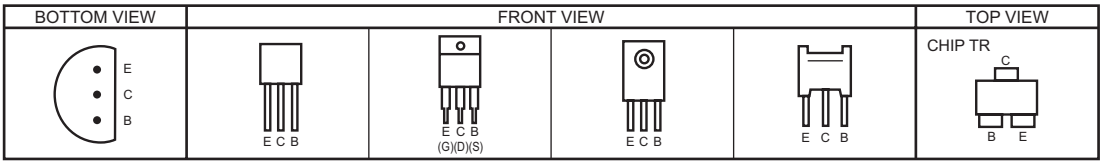
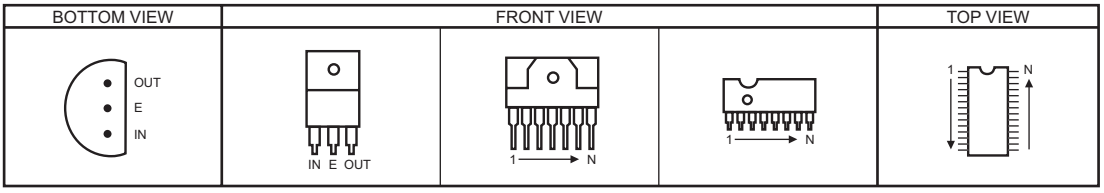
SEMICONDUCTOR SHAPES

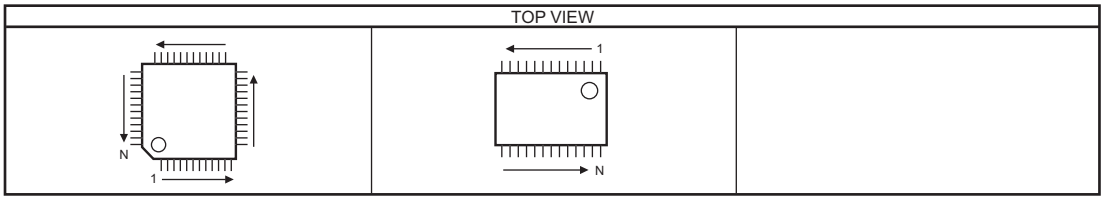
TRANSISTOR



IC



CHIP IC

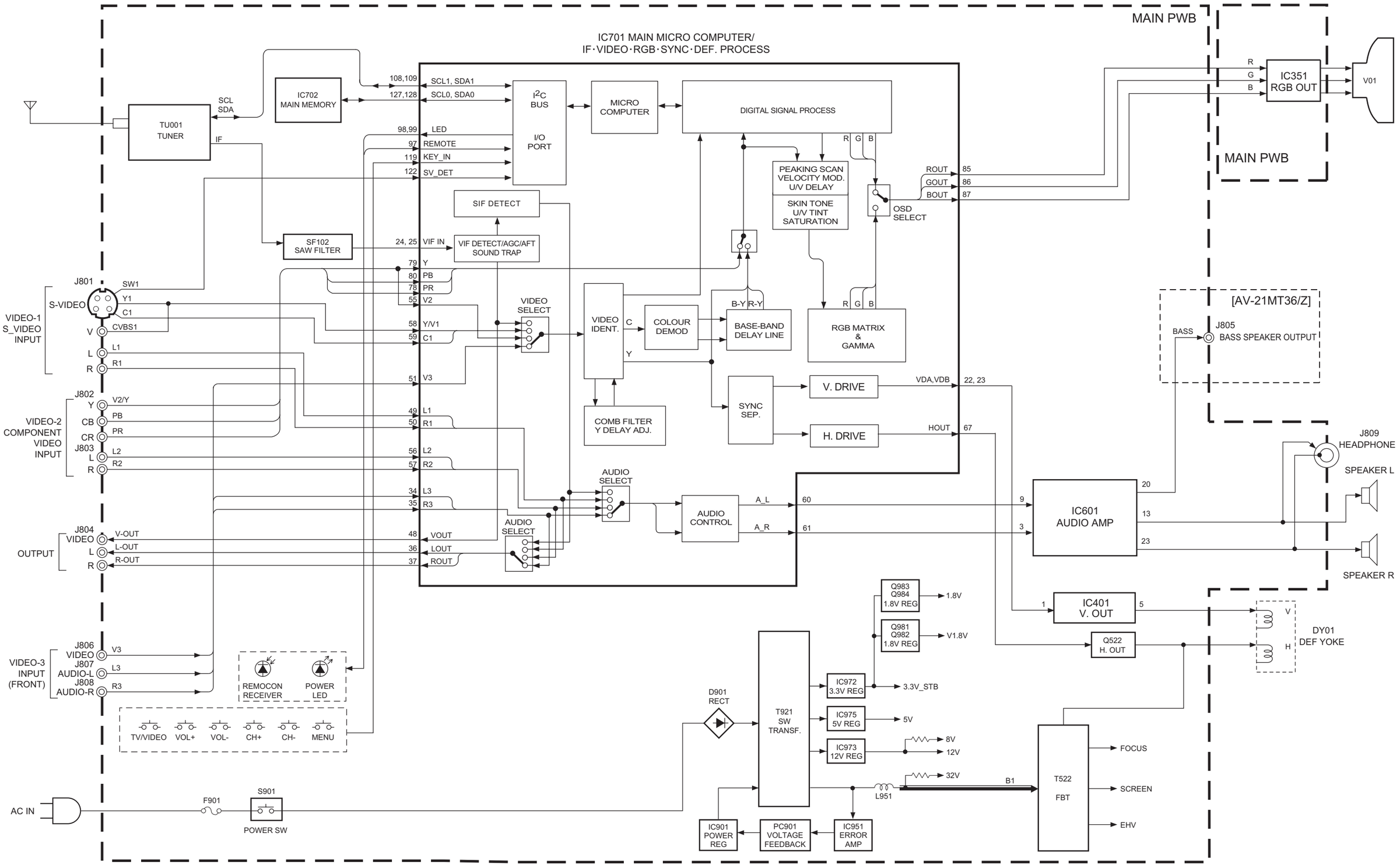


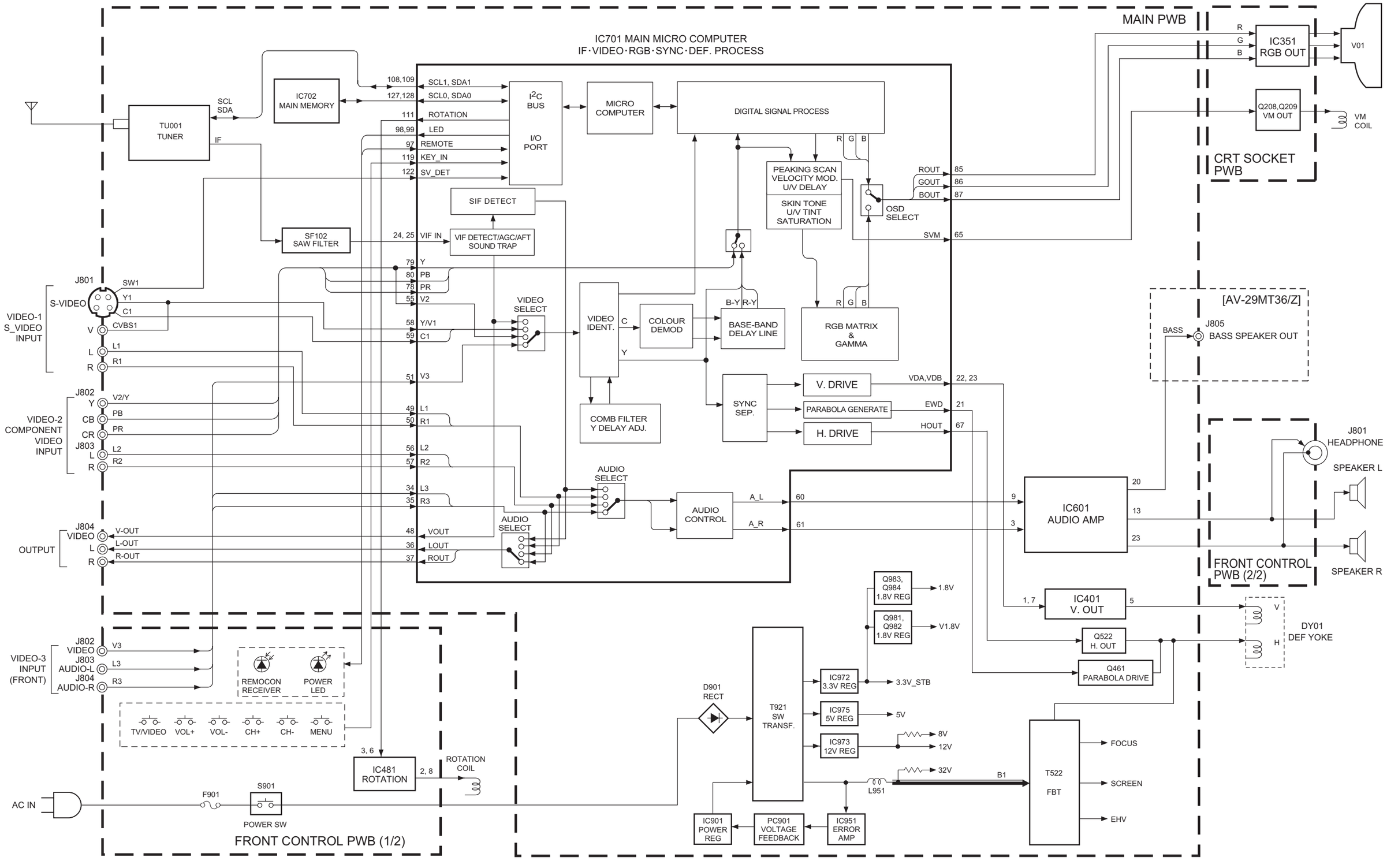
USING P.W.BOARD

P.W. BOARD ASS'Y NAME	AV-21MT16/Z	AV-21MT36/Z	AV-25MT16/Z	AV-29MT16/Z	AV-29MT36/Z
MAIN P.W. BOARD	SCW-1793A-H2	SCW-1794A-H2	SCW-1798A-H2	SCW-1812A-H2	SCW-1813A-H2
CRT SOCKET P.W. BOARD	---	---	---	SCW-3021A-H2	←
FRONT CONTROL P.W. BOARD	---	---	---	SCW-8011A-H2	←

BLOCK DIAGRAMS

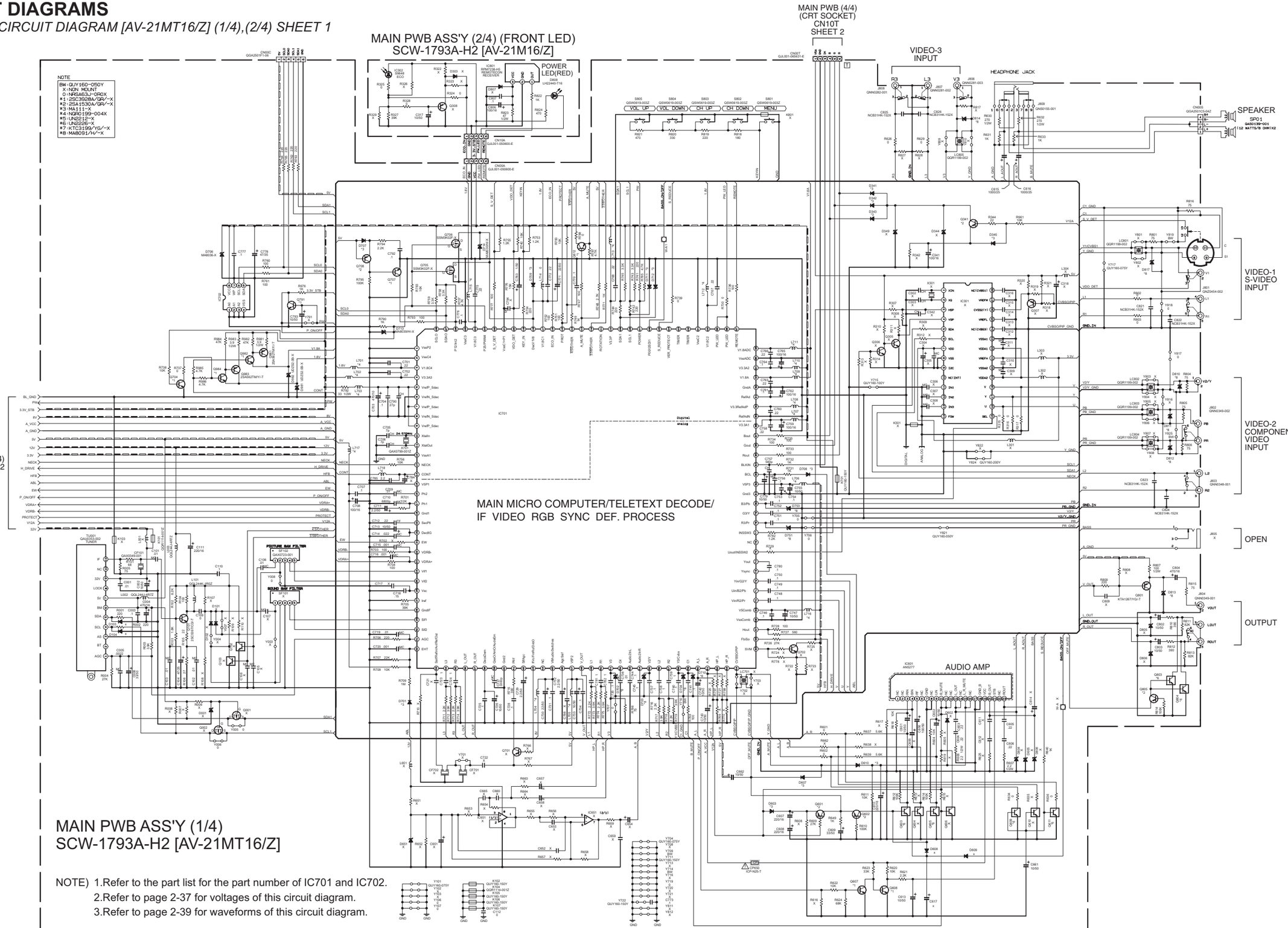
[AV-21MT16/Z, AV-21MT36/Z, AV-25MT16/Z]

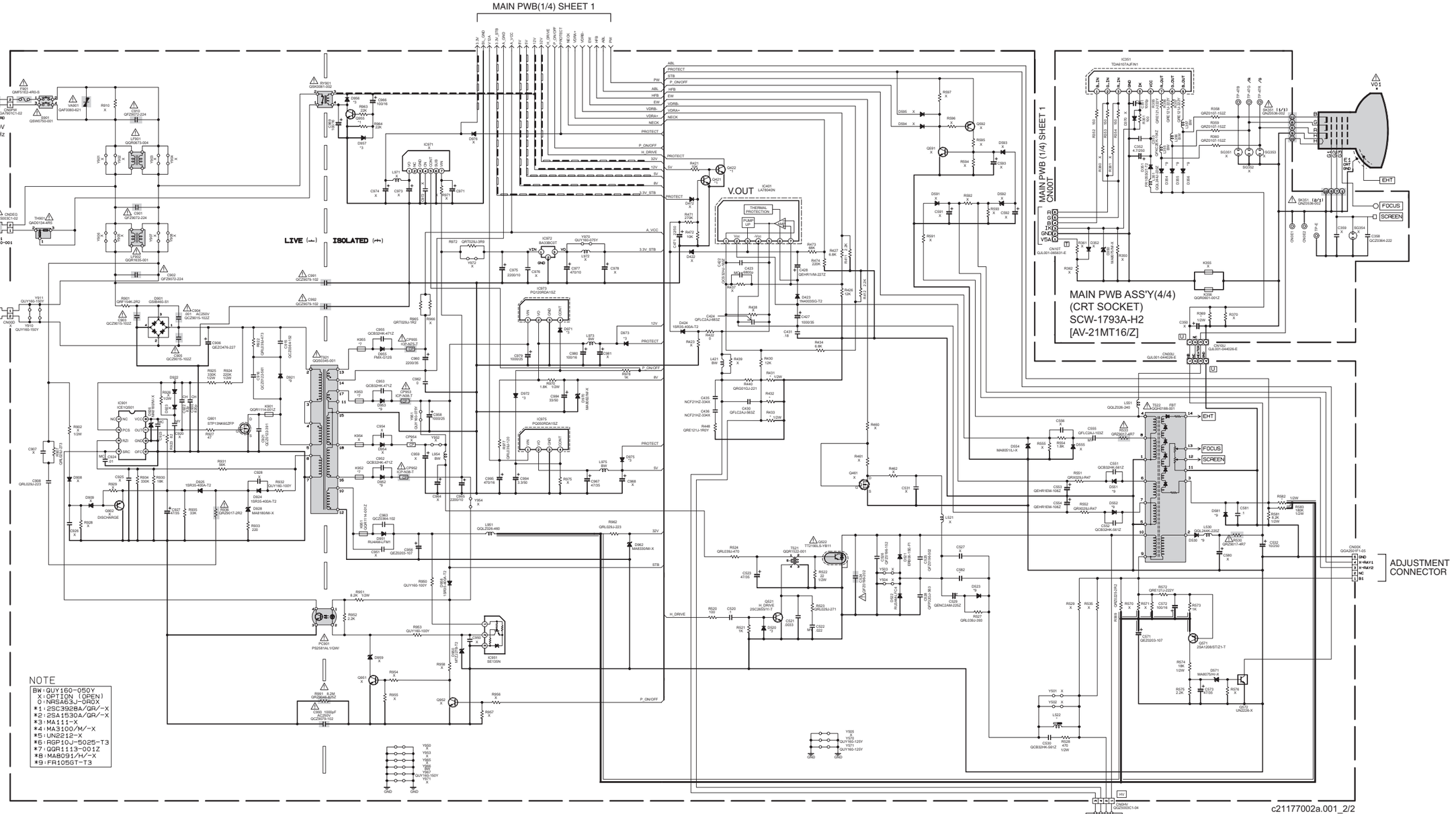



MAIN PWB
IC701 MAIN MICRO COMPUTER
IF·VIDEO·RGB·SYNC·DEF. PROCESS
TU001 TUNER
SCL
SDA
IF
IC702 MAIN MEMORY
108,109 SCL1, SDA1
127,128 SCL0, SDA0
111 ROTATION
98,99 LED
97 REMOTE
119 KEY_IN
122 SV_DET
I2C BUS
I/O PORT
MICRO COMPUTER
DIGITAL SIGNAL PROCESS
PEAKING SCAN VELOCITY MOD. U/V DELAY
SKIN TONE U/V TINT SATURATION
OSD SELECT
ROUT 85
GOUT 86
BOUT 87
SVM 65
IC351 RGB OUT
V01
Q208,Q209 VM OUT
VM COIL
CRT SOCKET PWB
SIF DETECT
SF102 SAW FILTER
24, 25 VIF IN
VIF DETECT/AGC/AFT SOUND TRAP
79 Y
80 PB
78 PR
55 V2
58 Y/V1
59 C1
51 V3
49 L1
50 R1
56 L2
57 R2
34 L3
35 R3
48 VOUT
36 LOUT
37 ROUT
VIDEO SELECT
VIDEO IDENT.
COLOUR DEMOD
BASE-BAND DELAY LINE
RGB MATRIX & GAMMA
COMB FILTER Y DELAY ADJ.
SYNC SEP.
V. DRIVE
PARABOLA GENERATE
H. DRIVE
VDA,VDB 22, 23
EWD 21
HOUT 67
AUDIO SELECT
AUDIO CONTROL
A_L 60
A_R 61
IC601 AUDIO AMP
[AV-29MT36/Z]
BASS
J805
BASS SPEAKER OUT
J801
HEADPHONE
SPEAKER L
SPEAKER R
FRONT CONTROL PWB (2/2)
J801 SW1
S-VIDEO
Y1
C1
V CVBS1
L L1
R R1
VIDEO-1 S_VIDEO INPUT
J802 Y V2/Y
CB PB
CR PR
VIDEO-2 COMPONENT VIDEO INPUT
J803 L L2
R R2
J804 VIDEO V-OUT
L L-OUT
R R-OUT
OUTPUT
J802 VIDEO V3
J803 AUDIO-L L3
J804 AUDIO-R R3
VIDEO-3 INPUT (FRONT)
REMOCON RECEIVER
POWER LED
TV/VIDEO VOL+ VOL- CH+ CH- MENU
3, 6
IC481 ROTATION
2, 8
ROTATION COIL
AC IN
F901
S901
POWER SW
FRONT CONTROL PWB (1/2)
Q983, Q984 1.8V REG
1.8V
Q981, Q982 1.8V REG
V1.8V
IC401 V. OUT
1, 7
5
Q522 H. OUT
Q461 PARABOLA DRIVE
V
H
DY01 DEF YOKE
D901 RECT
T921 SW TRANSF.
IC972 3.3V REG
3.3V_STB
IC975 5V REG
5V
IC973 12V REG
8V
12V
32V
B1
L951
T522 FBT
FOCUS
SCREEN
EHV
IC901 POWER REG
PC901 VOLTAGE FEEDBACK
IC951 ERROR AMP

CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM [AV-21MT16/Z] (1/4),(2/4) SHEET 1





MAIN PWB ASS'Y (3/4)
SCW-1793A-H2 [AV-21MT16/Z]

NOTE) 1.Refer to page 2-37 for voltages of this circuit diagram.
2.Refer to page 2-39 for waveforms of this circuit diagram.

DIFFERENCE PART LIST

*	21MT15PA	21MF15TA	21MT15FA	AV-21MT16ZA / SCW-1793A	AV21MT16PBACK / SCW-1793A
VO1	A51GDX-9K3X	A51GDX-9K3X	A51GDX-9K3X	A51GDA-9K3X	A51GDA-SKWXQ06
DY01	QQD0109-001	QQD0109-001	QQD0109-001	QQD0195-001	WITH ITC
POWER CORD	QMPR380-1685-K2	QMPR3C0-170*-JC	QMPR380-1685-K2	QMPR042-1685-K2	QMPR630-1685-JC
C562	QFZ31GF-184	QFZ31GF-204	QFZ31SF-184	QFZ31KF-204	QFZ31KF-204
R582	QRE121J-154Y	QRE121J-154Y	QRE121J-154Y	QRE121J-154Y	QRE121J-154Y
R431	QRE121J-4R7Y	QRE121J-4R7Y	QRE121J-4R7Z	X	X
R432	X	X	X	QRX01GJ-2R7	QRX01GJ-2R7
R433	QRE127J-4R7Y	QRE121J-4R7Y	QRE123J-4R7Z	QRE121J-120Y	QRE121J-4R7Y
LS22	QQR1005-004	QQR1005-004	QQR1005-004	QQR1005-002	QQR1005-003

MAIN PWB ASS'Y (2/4) (FRONT LED)
SCW-1794A-H2 [AV-21MT36/Z]

MAIN PWB (4/4)
(CRT SOCKET)
CN10T
SHEET 4

VIDEO-3
INPUT

HEADPHONE JACK

POWER
LED(RED)

SPEAKER

VIDEO-1
S-VIDEO
INPUT

VIDEO-2
COMPONENT
VIDEO
INPUT

BASS SPEAKER
OUT

OUTPUT

AUDIO AMP

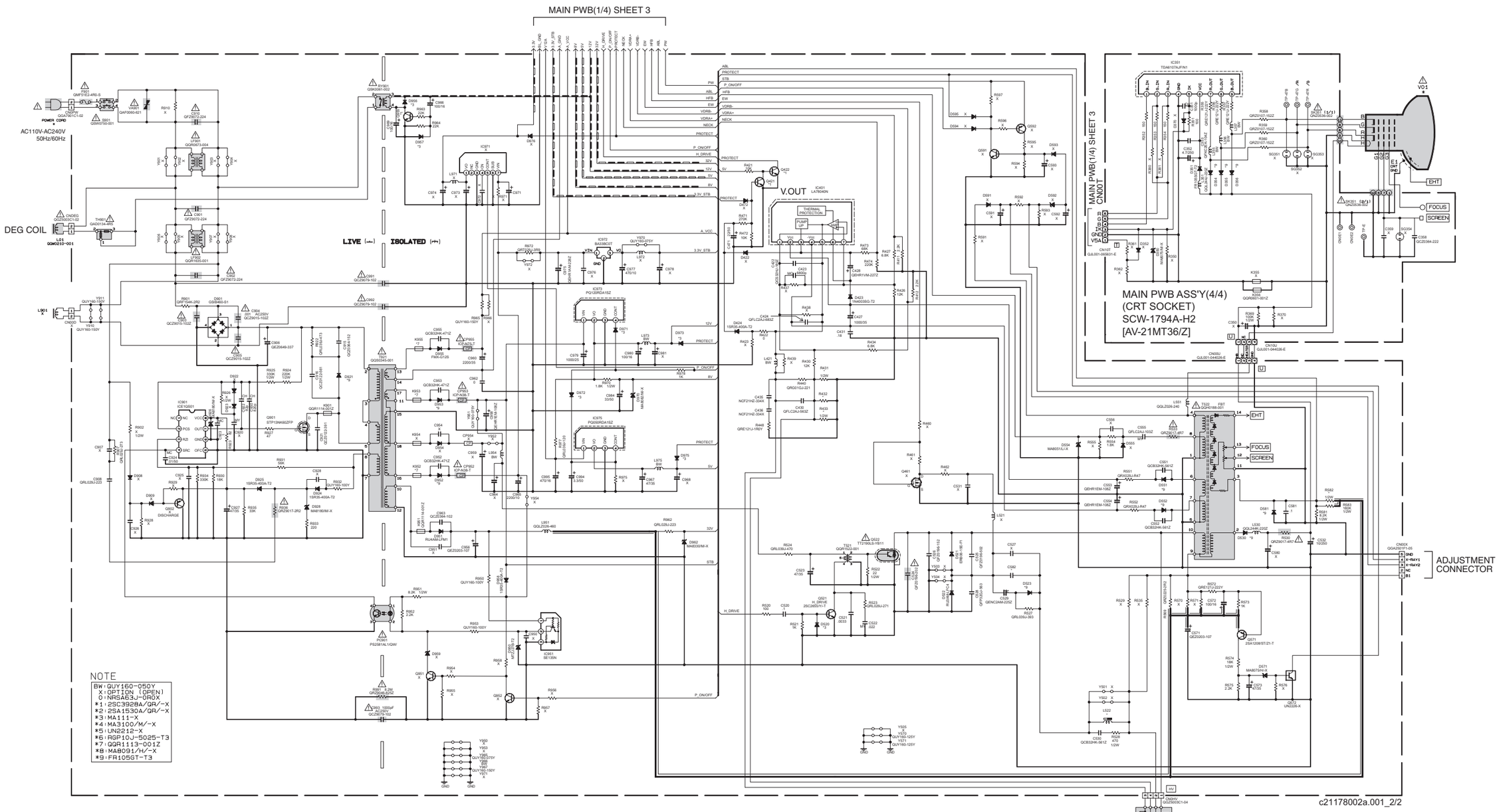
MAIN MICRO COMPUTER/TELETEXT DECODE/
IF VIDEO RGB SYNC DEF. PROCESS

MAIN PWB(3/4)
SHEET 4

MAIN PWB ASS'Y (1/4)
SCW-1794A-H2 [AV-21MT36/Z]

NOTE) 1.Refer to the part list for the part number of IC701 and IC702.
2.Refer to page 2-37 for voltages of this circuit diagram.
3.Refer to page 2-39 for waveforms of this circuit diagram.

c21178001a.001_1/2



MAIN PWB ASS'Y (3/4)
SCW-1794A-H2 [AV-21MT36/Z]

NOTE) 1.Refer to page 2-37 for voltages of this circuit diagram.
2.Refer to page 2-39 for waveforms of this circuit diagram.

DIFFERENCE PART LIST

*	AV-21MT36/Z SCW-1794A-H2	AV-21MT36/Z A SCW-1794A-H
VO1	A51GDK 9624	A51GDA 9624
DY01	GQC01579 -001Z	GQC01395 -001
POWER CORD	QMP5360 -1165-H2	QMP5340 -1165-H2
R451	QRE121J -4R7Y	X
R432	X	QRX007J -2R7
R433	QRE121J -4R7Y	QRE121J -120Y
L522	QQR1005 -004	QQR1005 -002
R582	QRE121J -154Y	QRE121J -184Y
C582	QFQ01H -104	QFQ01H -204

MAIN PWB ASS'Y (2/4) (FRONT LED)
SCW-1798A-H2 [AV-25MT16/Z]

POWER LED(RED)

MAIN PWB (4/4) (CRT SOCKET) CN10T SHEET 6

VIDEO-3 INPUT

HEADPHONE JACK

SPEAKER

VIDEO-1 S-VIDEO INPUT

VIDEO-2 COMPONENT VIDEO INPUT

OPEN

OUTPUT

AUDIO AMP

MAIN PWB(3/4) SHEET 6

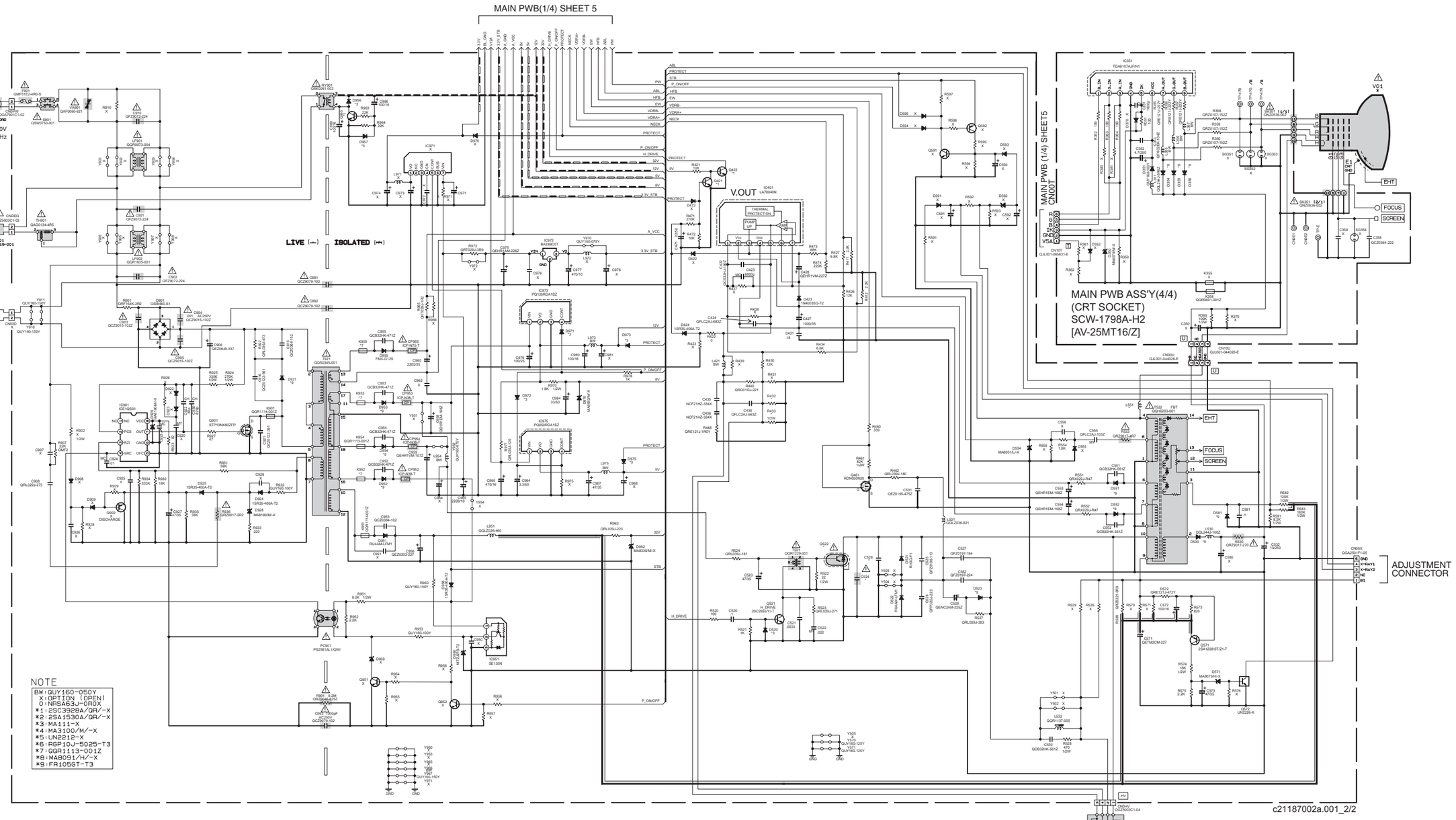
MAIN MICRO COMPUTER/TELETEXT DECODE/
IF VIDEO RGB SYNC DEF. PROCESS

MAIN PWB ASS'Y (1/4)
SCW-1798A-H2 [AV-25MT16/Z]

NOTE) 1.Refer to the part list for the part number of IC701 and IC702.
2.Refer to page 2-37 for voltages of this circuit diagram.
3.Refer to page 2-39 for waveforms of this circuit diagram.

c21187001a.001_1/2

MAIN PWB CIRCUIT DIAGRAM [AV-25MT16/Z] (3/4),(4/4) SHEET 6



c21187002a.001_2/2

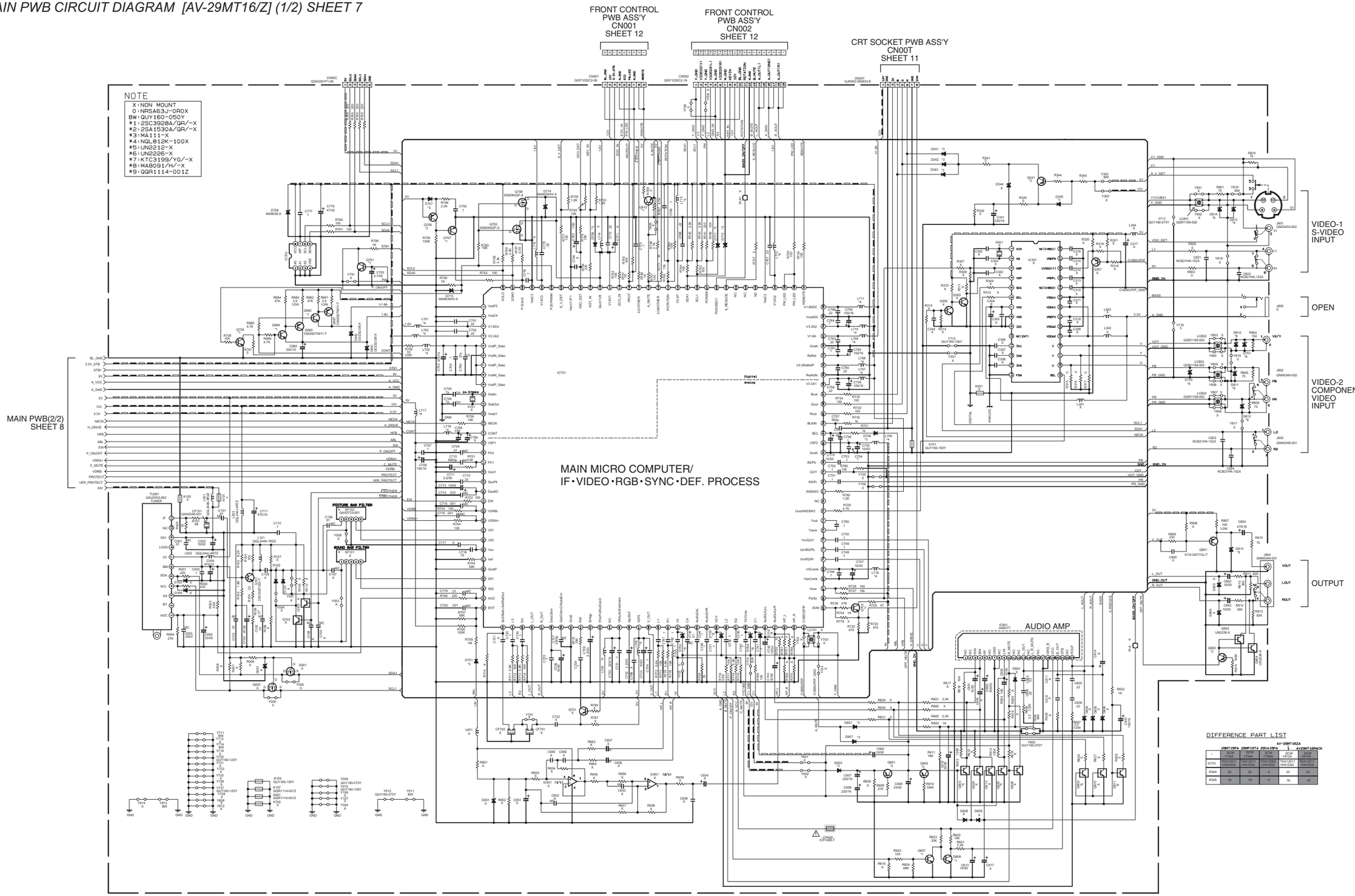
MAIN PWB ASS'Y (3/4)
SCW-1798A-H2 [AV-25MT16/Z]

NOTE) 1.Refer to page 2-37 for voltages of this circuit diagram.
2.Refer to page 2-39 for waveforms of this circuit diagram.

DIFFERENCE PART LIST

*	AV-25MT15PA	AV-25MT16ZA / AV25MT16RACK
	BOW SCW-1798A	BOW SCW-1798A
VO1	A63LVY 19KA	A59QDC 59CA	A59QDC5 BCH33TD
DY01	QQDD07B 103B	QQDD08B 103	#ETH ETC
POWER CORD	QMFR3M0 -16E-H2	QMFR3M0 -16E-H2	QMFRB3D -16E-JC
R432	QRR0102J -2R2	QRR0102J -2R2	QRR0102J -2R2
R433	QRE1212 -2R2FY	QRE1212 -2R2FY	QRE1212 -2R2FY
QS22	TT2212 YD	TT2222 YD	TT2222 YD
LS51	QQL2026 -360	QQL2026 -330	QQL2026 -330
CS24	QF20196 -252	QF20196 -252	QF20196 -252
CS26	QF20196 -252	QF20196 -252	QF20196 -252

MAIN PWB CIRCUIT DIAGRAM [AV-29MT16/Z] (1/2) SHEET 7

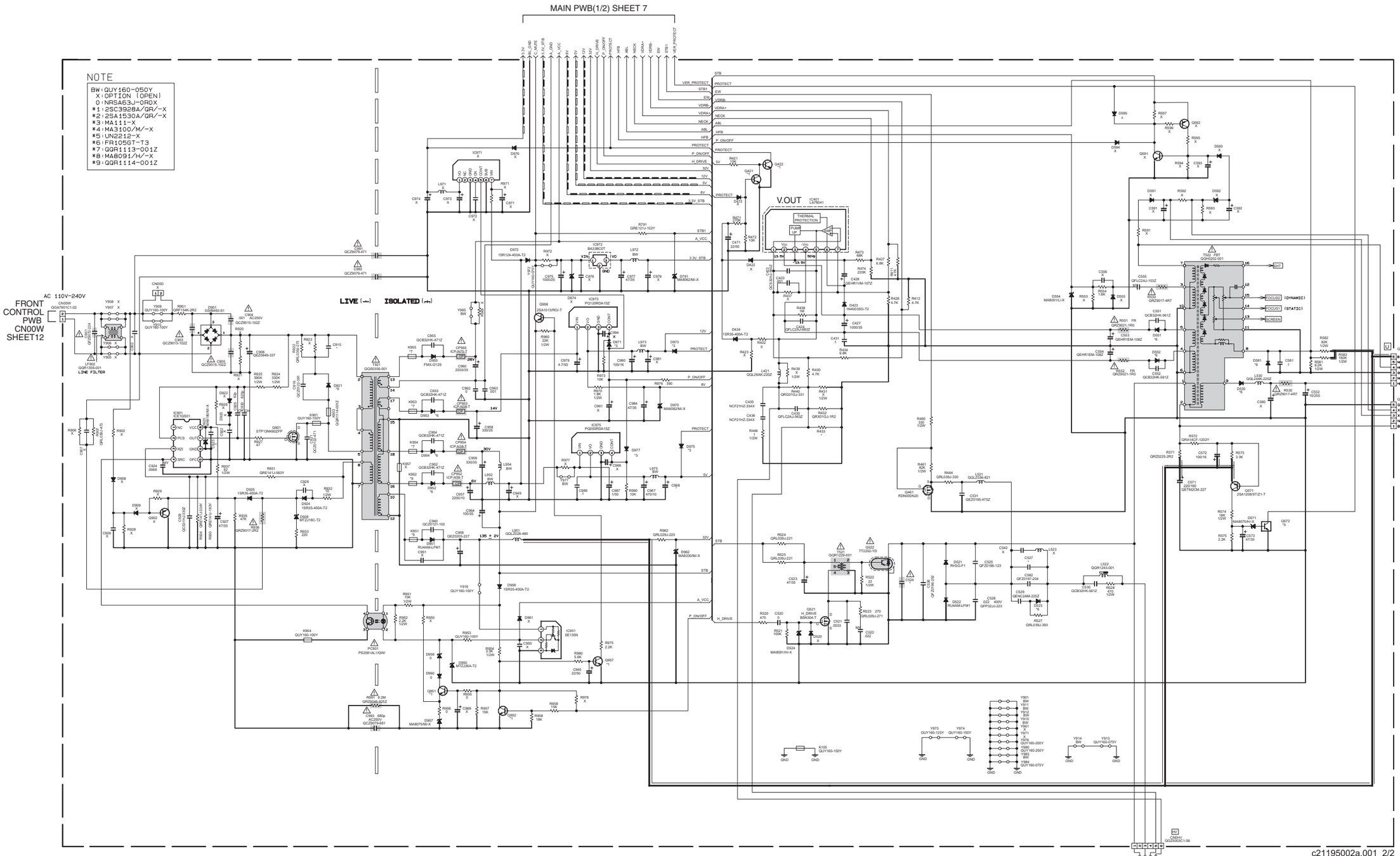


MAIN PWB ASS'Y (1/2)
SCW-1812A-H2 [AV-29MT16/Z]

NOTE) 1.Refer to the part list for the part number of IC701 and IC702.
2.Refer to page 2-38 for voltages of this circuit diagram.
3.Refer to page 2-40 for waveforms of this circuit diagram.

c21195001a.001_1/2

MAIN PWB CIRCUIT DIAGRAM [AV-29MT16/Z] (2/2) SHEET 8



c21195002a.001_2/2

MAIN PWB ASS'Y (2/2)
SCW-1812A-H2 [AV-29MT16/Z]

NOTE) 1.Refer to page 2-38 for voltages of this circuit diagram.
2.Refer to page 2-40 for waveforms of this circuit diagram.

MAIN PWB CIRCUIT DIAGRAM [AV-29MT36/Z] (1/2) SHEET 9

NOTE

X : NON MOUNT
0 : NRSA63J-0R0X
BW : QUY160-050Y
*1 : 2SC3928A/QR/-X
*2 : 2SA1530A/QR/-X
*3 : MA111-X
*4 : NQL812K-100X
*5 : UN2212-X
*6 : UN2226-X
*7 : KTC3199/YG/-X
*8 : MA8091/H/-X
*9 : QQR1114-001Z

FRONT CONTROL PWB CN001 SHEET 12

FRONT CONTROL PWB CN002 SHEET 12

CRT SOCKET PWB CN00T SHEET 11

MAIN PWB(2/2) SHEET 10

MAIN MICRO COMPUTER/
IF・VIDEO・RGB・SYNC・DEF. PROCESS

AUDIO AMP

VIDEO-1 S-VIDEO INPUT

BASS SPEAKER OUT

VIDEO-2 COMPONENT VIDEO INPUT

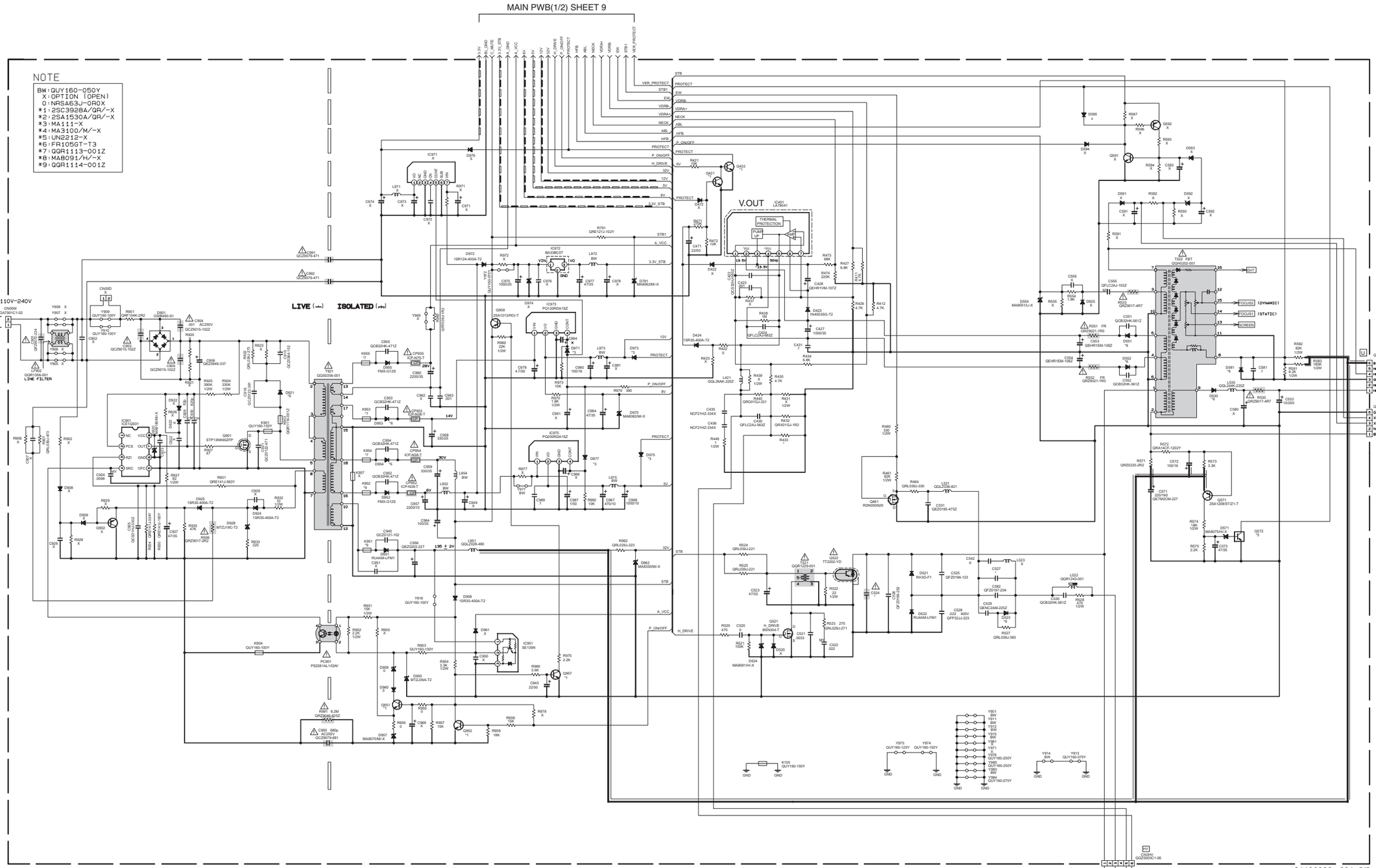
OUTPUT

c21196001a.001_1/2

MAIN PWB ASS'Y (1/2)
SCW-1813A-H2 [AV-29MT36/Z]

NOTE) 1.Refer to the part list for the part number of IC701 and IC702.
2.Refer to page 2-38 for voltages of this circuit diagram.
3.Refer to page 2-40 for waveforms of this circuit diagram.

MAIN PWB CIRCUIT DIAGRAM [AV-29MT36/Z] (2/2) SHEET10

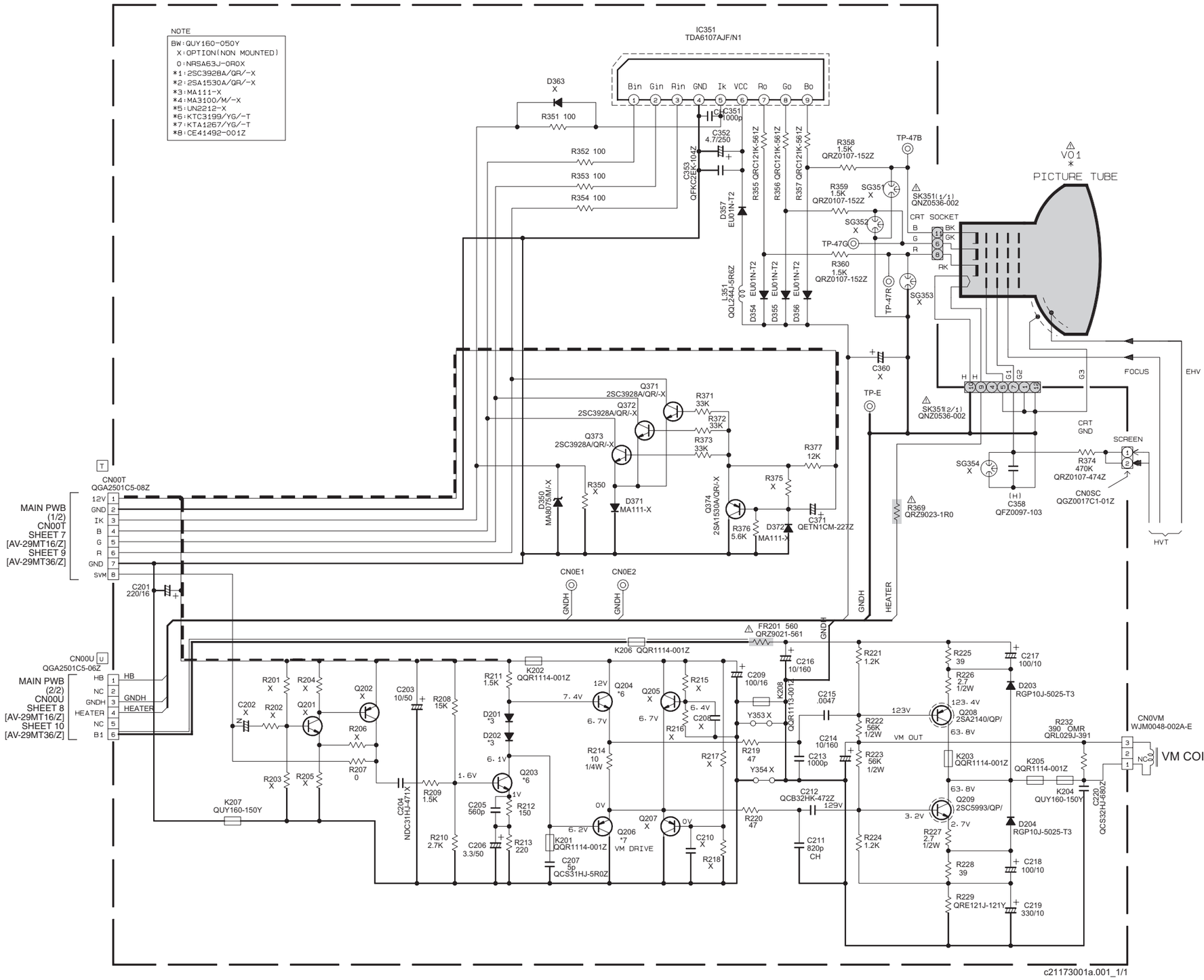


MAIN PWB ASS'Y (2/2)
SCW-1813A-H2 [AV-29MT36/Z]

NOTE) 1.Refer to page 2-38 for voltages of this circuit diagram.
2.Refer to page 2-40 for waveforms of this circuit diagram.

DIFFERENCE PART LIST

*	AV-29MT362A AV-29HT35PA	AV-29MT36PACK
	SCW -1710A	SCW -1813A
DY01	QGD0125-001 WITH ITC	QGD0125-001 WITH ITC
R433	QRE1221J -395Y	QRE1221J -6R8Y
C524	QFZ0198 -232	QFZ0198 -252
C527	QFZ0197 -229	QFZ0197 -204



CRT SOCKET PWB ASS'Y
SCW-3021A-H2
[AV-29MT16/Z, AV-29MT36/Z]

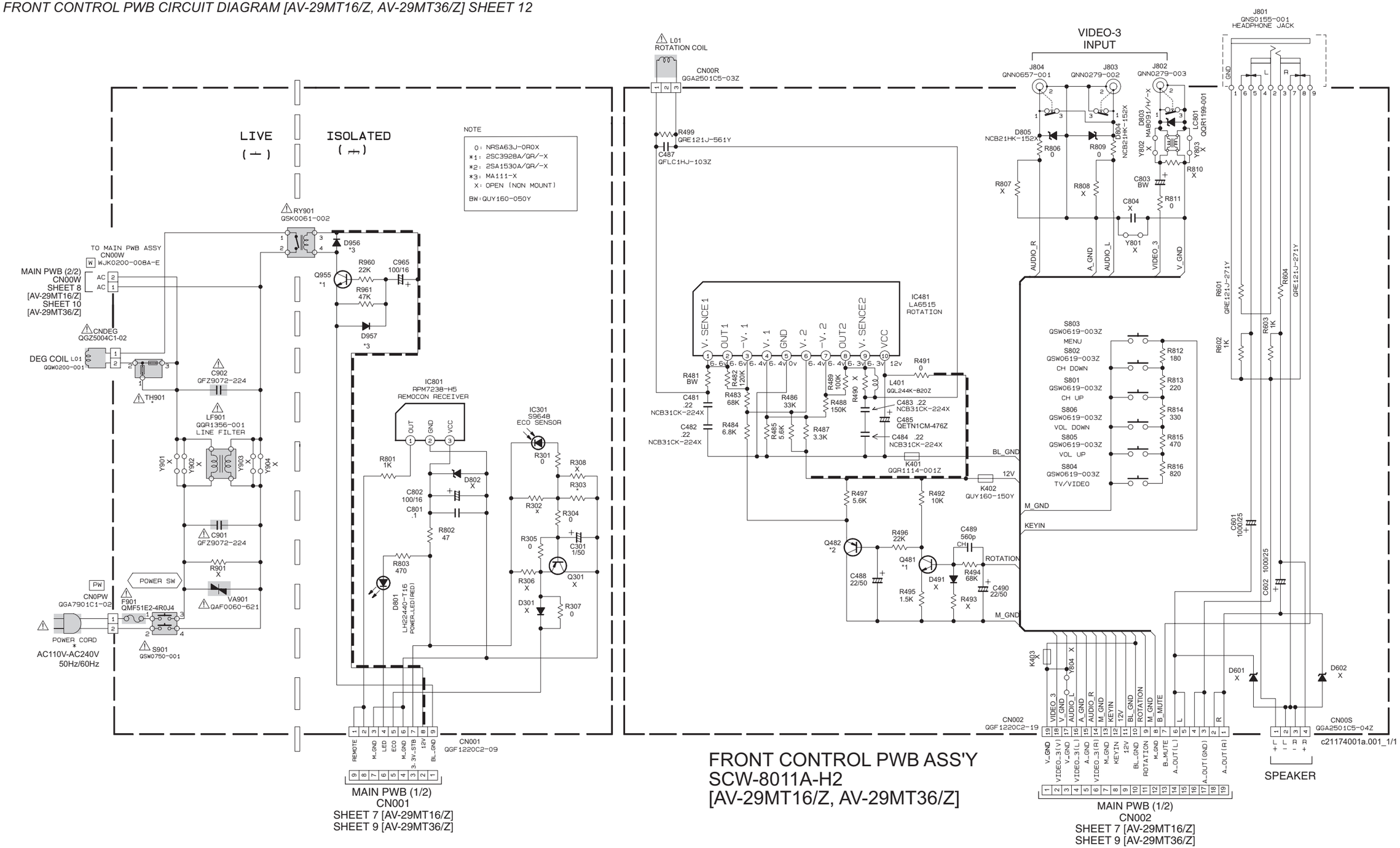
DIFFERENCE PART LIST

	29MP15TA	29MS15HA	29MS25AA	29MS25A	29MT35PA	29MX55SA	29MX75GB	29MS25MA
*	SCW-3021A	SCW-3021A	SCW-3021A	SCW-3021A	SCW-3021A	SCW-3021A	SCW-3021A	SCW-3021A
V01	A68AKY 13X	A68LZU 185X	A68LZU 185X	A68LZU 185X	A68AKY 13X	A68QCU870 X52K	A68LZU 185X	A68LZU 185X

	29MT15PA	29MX75LA	29MX75UA	29B5MEA	29MX75GA	AV-29MT16ZA	AV-29MT36ZA
*	SCW-3021A	SCW-3021A	SCW-3021A	SCW-3021A	SCW-3021A	SCW-3021A	SCW-3021A
V01	A68AKY 13X	A68LZU 185X	A68QCU870 X52K	A68QCU870 X52K	A68QCU870 X52K	A68QCU870 X52S	A68QCU870 X52S

	29VX15GA	29VX15LA	29VX15SA	29VX15UA	29VA15PA	29WX25GA	2955VEA
*	SCW-3024A	SCW-3024A	SCW-3024A	SCW-3024A	SCW-3024A	SCW-3024A	SCW-3024A
V01	A68AKY 13X	A68AKY 13X	A68AKY 13X	A68QCU870 X52K	A68AKY 13X	A68AKY 13X	A68QCU870 X52K

	AV29MT16RACK	AV29MT36RACK
*	SCW-3039A	SCW-3039A
V01	A68QCU870 X52TD	A68QCU870 X52TD



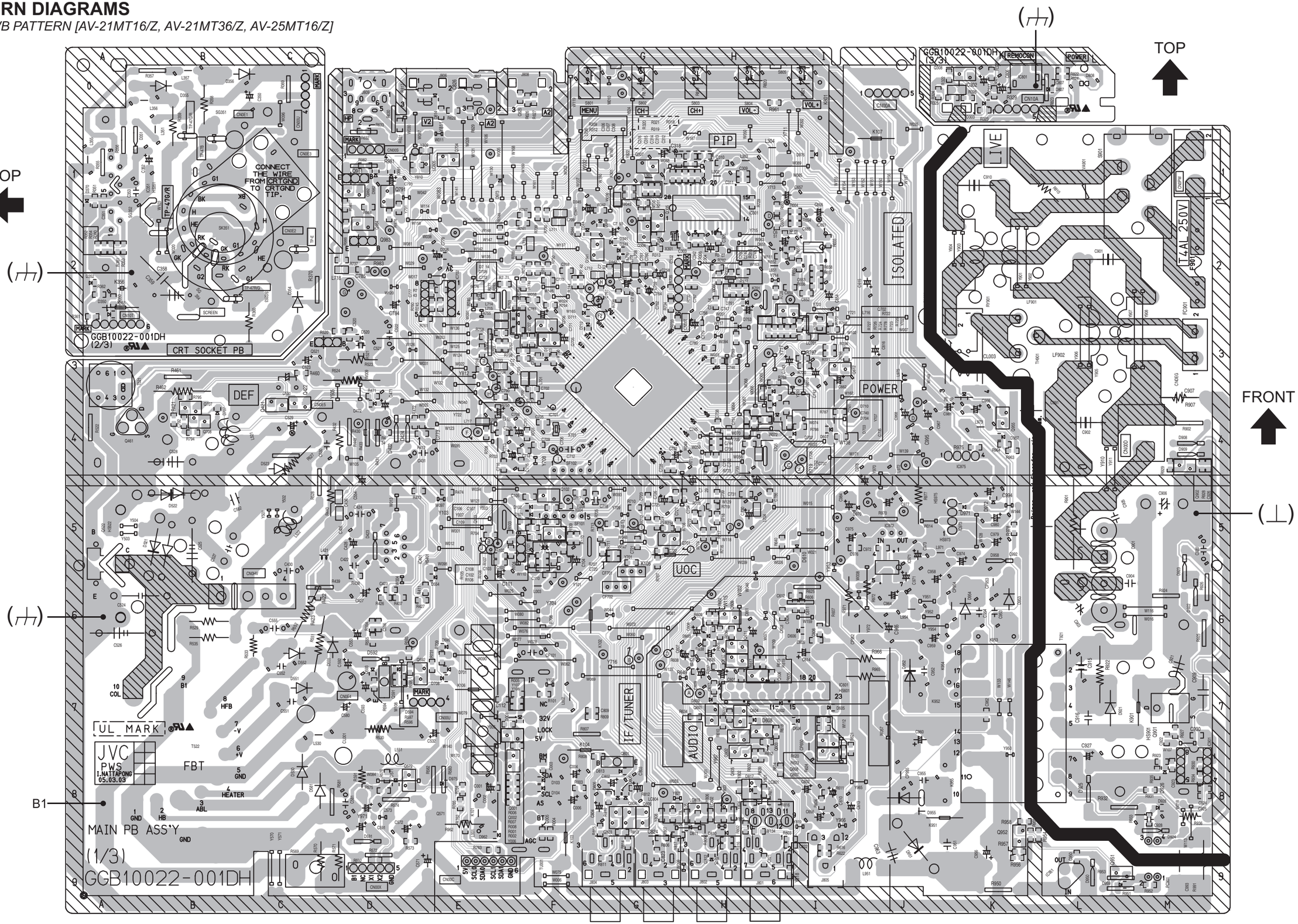
DIFFERENCE PART LIST

*	29MP15TA	29MS15HA	29MS25AA	29MS25A	29MS25MA	29MT35PA	29MX55SA	29MX75GA	29MX75LA	29MX75UA	2985MEA	29MT15PA	2985MEKASK	2985MEVASK	2987METASK	29MX75GB	29VX15GA	29VX15LA	29VX15SA	29VX15UA	29WX25GA	29VA15PA	2955VEA	2955VEKASK	2955VEVASK	2955MEDASK
	SCW-8011A	SCW-8011A	SCW-8018A	SCW-8011A	SCW-8011A	SCW-8011A	SCW-8011A	SCW-8011A	SCW-8011A	SCW-8011A	SCW-8011A	SCW-8011A	SCW-8011A	SCW-8011A	SCW-8016A	SCW-8011A	SCW-8014A	SCW-8014A	SCW-8014A	SCW-8014A	SCW-8014A	SCW-8014A	SCW-8014A	SCW-8014A	SCW-8014A	SCW-8016A
POWER CORD	QMPR520 -170-JC	QMPR650 -165-JC	QMPG120 -170-JC	QMPR340 -165-K2	QMPR340 -165-K2	QMPR380 -165-K2	QMPR650 -165-JC	QMPR340 -165-K2	QMPR340 -165-K2	QMPR340 -165-K2	QMPR340 -165-K2	QMPR380 -165-K2	QMPR340 -165-K2	QMPR340 -165-K2	QMPR340 -165-K2	QMPR340 -165-K2	QMPR340 -165-K2	QMPR340 -165-K2	QMPR650 -165-JC	QMPR340 -165-K2	QMPR340 -165-K2	QMPR380 -165-K2	QMPR340 -165-K2	QMPR340 -165-K2	QMPR340 -165-K2	QMPR340 -165-K2
R303	82K	82K	82K	82K	82K	82K	82K	82K	82K	82K	82K	82K	82K	82K	82K	82K	68K	68K	68K	68K	68K	68K	68K	68K	68K	82K
TH901	QAD0134 -4R5	QAD0134 -4R5	QAD0123 -180	QAD0134 -4R5	QAD0134 -4R5	QAD0134 -4R5	QAD0134 -4R5	QAD0134 -4R5	QAD0134 -4R5	QAD0134 -4R5	QAD0134 -4R5	QAD0134 -4R5	QAD0134 -4R5	QAD0134 -4R5	QAD0145 -2R3	QAD0134 -4R5	QAD0145 -2R3	QAD0145 -2R3	QAD0145 -2R3	QAD0145 -2R3	QAD0145 -2R3	QAD0145 -2R3	QAD0145 -2R3	QAD0145 -2R3	QAD0145 -2R3	QAD0145 -2R3

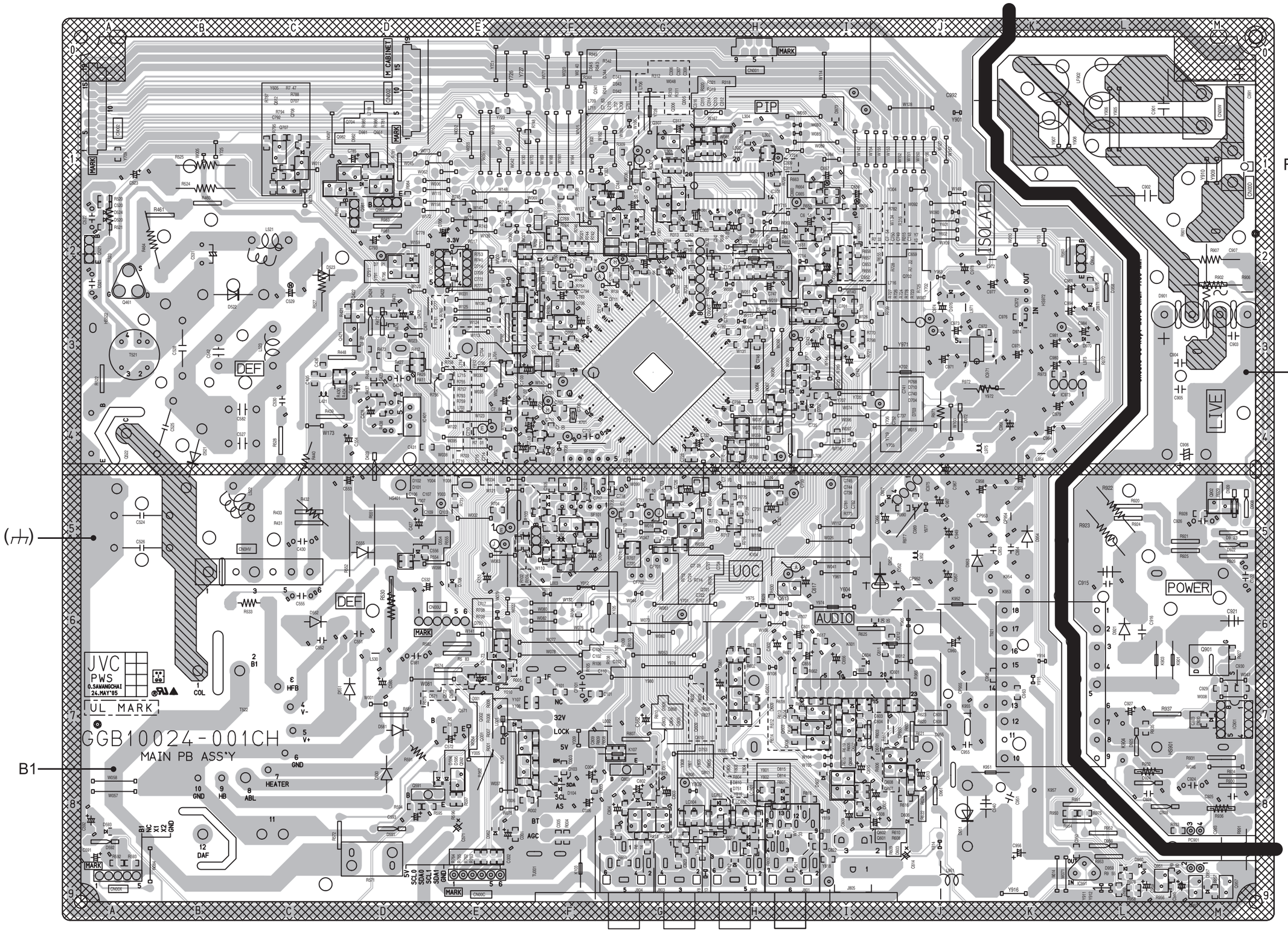
*	AV-29MT16ZA / AV29MT16RACK SCW-8011A	AV-29MT36ZA / AV29MT36RACK SCW-8011A	AV29MT36RACK SCW-8021A	AV29MT36RACK SCW-8016A
POWER CORD	QMPR340 -165-K2	QMPR340 -165-K2	QMPR830 -165-JC	QMPR830 -165-JC
R303	330k	330k	82K	82K
TH901	QAD0145 -2R3	QAD0145 -2R3	QAD0134 -4R5	QAD0134 -4R5

PATTERN DIAGRAMS

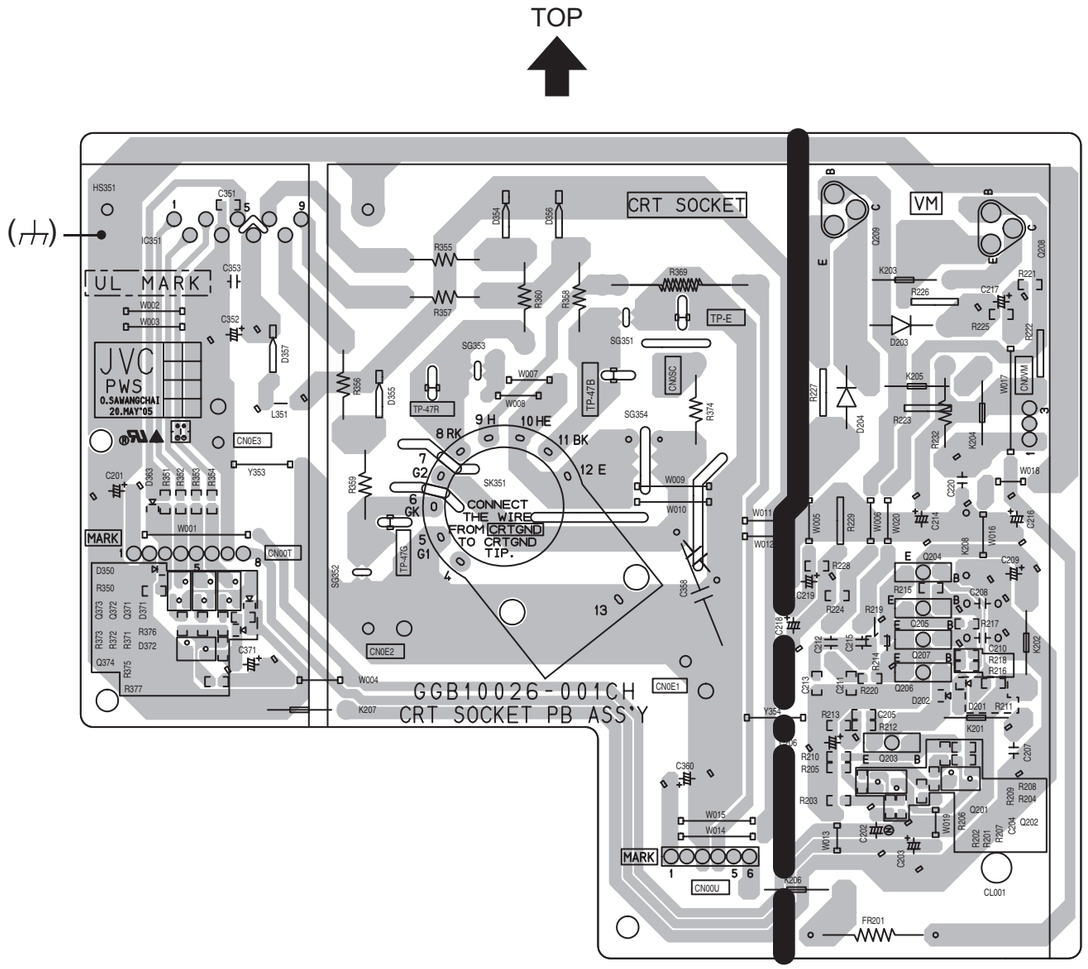
MAIN PWB PATTERN [AV-21MT16/Z, AV-21MT36/Z, AV-25MT16/Z]



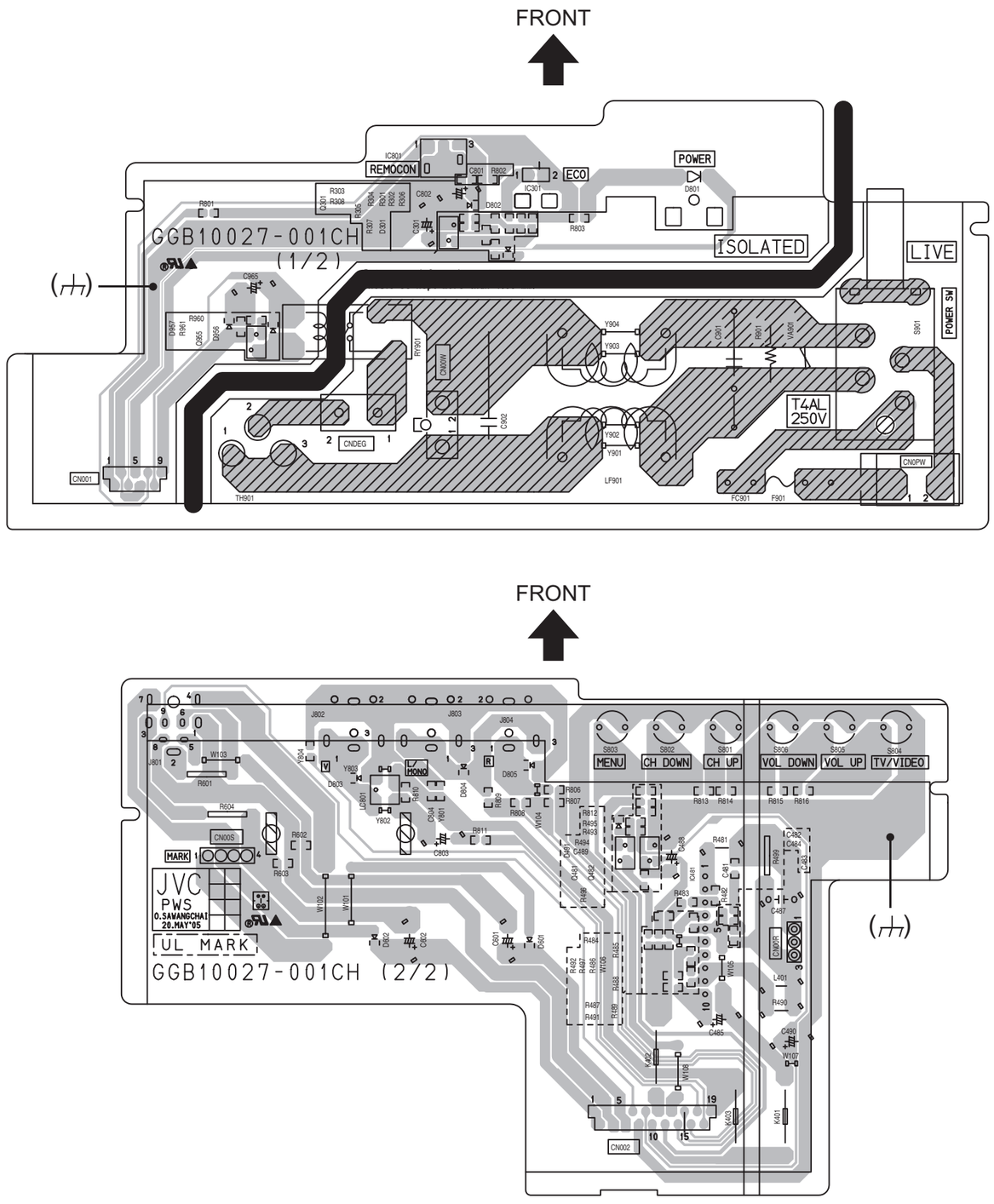
MAIN PWB PATTERN [AV-29MT16/Z, AV-29MT36/Z]



CRT SOCKET PWB PATTERN [AV-29MT16/Z, AV-29MT36/Z]



FRONT CONTROL PWB PATTERN [AV-29MT16/Z, AV-29MT36/Z]



VOLTAGE CHARTS

[AV-21MT16/Z, AV-21MT36/Z, AV-25MT16/Z]

<MAIN PWB>

MODE PIN NO.	DC (V)
IC401	
1	0.5
2	13.6
3	-11.0
4	-13.5
5	0
6	13.9
7	0.5
IC601	
1	0
2	0
3	0
4	0
5	0.2
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	36.9
20	0
21	0
22	0
23	0
IC651	
1	6.2
2	6.2
3	6.1
4	0
5	6.2
6	0.1
7	6.2
8	11.8
IC701	
1	0
2	0
3	1.9
4	3.2
5	3.1
6	3.1
7	3.1
8	0
9	0
10	0
11	1.4
12	0
13	0.1
14	2.8
15	4.9
16	1.8
17	0
18	0
19	2.3
20	0
21	0
22	0.8
23	0.9
24	1.9
25	1.9
26	2.4
27	1.9
28	0
29	0
30	0.2
31	4.3
32	3.4
33	0.6
34	2.2
35	2.2
36	3.6
37	3.5
38	2.3
39	2.5
40	0
41	2.3
42	0
43	2.8
44	2.2
45	8.4
46	0
47	4.9
48	1.4
49	2.2
50	2.2
51	1.4
52	1.5
53	2.2

MODE PIN NO.	DC (V)
54	2.1
55	1.4
56	0
57	2.2
58	1.4
59	1.6
60	3.6
61	3.6
62	3.5
63	3.5
64	0.5
65	2.0
66	0.4
67	1.5
68	0.1
69	4.9
70	1.3
71	1.2
72	1.2
73	1.9
74	1.6
75	0.2
76	0
77	3.2
78	1.2
79	1.2
80	1.3
81	0
82	10.7
83	2.6
84	0
85	2.1
86	2.1
87	2.1
88	3.2
89	0
90	3.2
91	1.6
92	0
93	1.9
94	0
95	-0.5
96	1.8
97	3.0
98	0.1
99	8.3
100	2.0
101	0
102	2.2
103	-0.6
104	0.1
105	0
106	3.2
107	-0.6
108	2.0
109	1.8
110	3.2
111	0
112	3.2
113	0
114	3.2
115	0.6
116	2.6
117	1.9
118	2.0
119	3.2
120	0
121	0
122	3.1
123	0
124	1.9
125	0
126	3.2
127	2.9
128	3.2
IC702	
1	0
2	0
3	0.1
4	0
5	3.2
6	3.2
7	0
8	3.2
IC901	
1	0.1
2	1.9
3	2.0
4	3.5
5	0.1
6	0.1
7	1.9
8	19.3
IC951	
1	134.1

MODE PIN NO.	DC (V)
2	11.7
3	0
IC972	
1	7.1
2	0.1
3	3.2
IC973	
1	15.2
2	11.9
3	0
4	2.7
IC975	
1	0.1
2	4.9
3	0.1
4	2.4
Q101	
E	2.2
C	11.8
B	2.9
Q341	
E	7.9
C	1.9
B	8.1
Q421	
E	0.1
C	0
B	0.6
Q422	
E	0
C	3.2
B	0
Q461	
S	0
D	13.7
G	3.7
Q521	
E	0
C	17.1
B	0
Q522	
E	0
C	125.0
B	-0.1
Q571	
E	134.0
C	0
B	133.7
Q572	
E	0
C	3.1
B	-1.0
Q601	
E	8.1
C	0.1
B	0.1
Q602	
E	0.4
C	0.2
B	0
Q603	
E	0
C	0.1
B	-1.6
Q604	
E	0
C	0
B	0
Q605	
E	0
C	0
B	-1.5
Q606	
E	0
C	0
B	1.0
Q607	
E	0
C	0.1
B	0.2
Q608	
E	0.1
C	20.5
B	0
Q609	
E	0.1
C	0.1
B	2.4
Q610	
E	0
C	0
B	0
Q611	
E	0
C	0

MODE PIN NO.	DC (V)
B	2.4
Q612	
E	0.1
C	4.9
B	0
Q704	
E	0
C	2.5
B	0
Q705	
S	0
G	2.0
D	0
Q706	
S	0
G	1.5
D	0
Q707	
E	0
C	0
B	0
Q708	
E	4.7
C	0
B	4.9
Q791	
E	0
C	2.5
B	0
Q801	
E	2.1
C	0
B	1.4
Q803	
E	0
C	0
B	-0.5
Q804	
E	0
C	0
B	-0.5
Q805	
E	0.1
C	-0.1
B	0
Q901	
S	0
D	294.6
G	1.5
Q955	
E	0
C	0.3
B	0.3
Q981	
E	2.7
C	1.9
B	1.9
Q982	
E	1.5
C	2.0
B	2.5
Q983	
E	2.8
C	1.5
B	2.0
Q984	
E	1.5
C	2.0
B	2.6
TU001	
1	4.3
2	0
3	-0.1
4	1.9
5	1.9
6	4.9
7	4.9
8	0
9	35.1
11	0

<MAIN PWB (FRONT LED)>

MODE PIN NO.	DC (V)
IC302	
1	2.5
2	3.1
IC801	
1	3.0
2	0.1
3	3.2

<MAIN PWB (CRT SOCKET)>

MODE PIN NO.	DC (V)
IC351	
1	2.2
2	2.1
3	2.1
4	0
5	4.8
6	192.6
7	119.3
8	109.6
9	109.3

[AV-29MT16/Z, AV-29MT36/Z]

<MAIN PWB>

MODE PIN NO.	DC (V)
IC401	
1	0.3
2	13.9
3	-10.8
4	-13.3
5	0
6	14.4
7	0.5
IC601	
1	0.4
2	0
3	33.5
4	0
5	0
6	0.4
7	16.8
8	1.2
9	0
10	34.9
11	19.9
12	16.9
IC651	
1	6.2
2	6.2
3	6.1
4	0
5	6.2
6	0.1
7	6.2
8	11.8
IC701	
1	0
2	0
3	1.9
4	3.2
5	3.1
6	0
7	3.0
8	0
9	3.0
10	1.4
11	1.4
12	0.3
13	0.1
14	2.8
15	4.8
16	1.9
17	2.2
18	0
19	2.3
20	2.2
21	3.5
22	1.2
23	1.3
24	1.9
25	1.9
26	2.3
27	1.9
28	0
29	1.9
30	1.9
31	4.3
32	1.8
33	2.1
34	2.2
35	2.2
36	3.6
37	3.5
38	2.4
39	2.5
40	0
41	2.9
42	1.6
43	2.6
44	2.8
45	8.2
46	2.2
47	4.8
48	1.4
49	2.2
50	2.1
51	1.4
52	1.6
53	2.2
54	2.2
55	1.4
56	2.1
57	2.2
58	1.8
59	1.5
60	3.7
61	3.7
62	3.5
63	3.5
64	0.5

MODE PIN NO.	DC (V)
65	2.0
66	0.3
67	1.6
68	0
69	4.9
70	1.3
71	1.2
72	1.2
73	2.0
74	1.7
75	0.3
76	0
77	3.2
78	1.2
79	1.1
80	1.2
81	0
82	4.9
83	2.4
84	3.7
85	2.0
86	2.1
87	2.0
88	3.1
89	0
90	3.1
91	1.6
92	0.2
93	1.7
94	3.2
95	0
96	1.8
97	3.0
98	0
99	0
100	1.9
101	0
102	1.5
103	0
104	0
105	3.1
106	3.2
107	0
108	2.0
109	1.9
110	3.2
111	1.7
112	0
113	0
114	3.1
115	3.1
116	2.6
117	1.9
118	1.9
119	3.1
120	3.0
121	0
122	3.1
123	0
124	1.9
125	0
126	3.2
127	3.1
128	3.1
IC702	
1	0
2	0
3	0
4	0
5	3.2
6	3.2
7	0
8	3.2
IC901	
1	0.7
2	1.9
3	2.1
4	3.7
5	0
6	0
7	2.7
8	18.2
IC951	
1	135.1
2	21.9
3	0
IC972	
1	6.7
2	0
3	3.1
IC973	
1	16.4
2	11.8
3	0
4	3.1

MODE PIN NO.	DC (V)
IC975	
1	7.5
2	4.9
3	0
4	3.2
Q101	
E	2.2
C	11.8
B	2.9
Q341	
E	4.8
C	-0.2
B	4.9
Q421	
E	0
C	0
B	0.5
Q422	
E	0
C	3.1
B	0
Q461	
S	17.6
D	0
G	3.6
Q521	
E	0
C	20.5
B	1.6
Q522	
E	0
C	130.0
B	0
Q571	
E	135.0
C	0
B	134.7
Q572	
E	0
C	3.1
B	0
Q601	
E	6.6
C	0.2
B	6.6
Q602	
E	0.2
C	-0.4
B	0
Q603	
E	0
C	0
B	-0.6
Q605	
E	0
C	0
B	-0.7
Q607	
E	0
C	0
B	0.6
Q608	
E	0
C	22.7
B	0
Q609	
E	0
C	0
B	2.4
Q610	
E	0
C	0
B	0
Q611	
E	0
C	0
B	2.4
Q612	
E	0
C	4.9
B	0
Q702	
E	1.3
C	4.7
B	2.0
Q704	
E	0
C	2.5
B	0
Q705	
S	0
D	0
G	1.9
Q706	
S	0

MODE PIN NO.	DC (V)
D	0
G	1.9
Q707	
E	0
C	3.2
B	0
Q708	
E	4.7
C	0
B	4.9
Q791	
E	0
C	3.9
B	0
Q801	
E	2.1
C	0
B	1.4
Q803	
E	0
C	0
B	-0.5
Q804	
E	0
C	0
B	-0.5
Q805	
E	0.2
C	-0.4
B	0
Q901	
S	0
D	267.6
G	2.8
Q951	
E	0.7
C	21.9
B	0
Q952	
E	0
C	0
B	0.7
Q957	
E	0
C	29.1
B	0
Q958	
E	29.2
C	6.7
B	29.1
Q981	
E	2.7
C	1.9
B	1.9
Q982	
E	1.9
C	2.0
B	2.5
Q983	
E	2.7
C	2.0
B	2.0
Q984	
E	1.9
C	2.0
B	2.5
TU001	
1	4.3
2	3.8
3	0
4	2.1
5	2.0
6	4.9
7	4.9
8	0
9	35.0
11	0

<CRT SOCKET PWB>

MODE PIN NO.	DC (V)
IC351	
1	2.0
2	2.1
3	2.0
4	0.1
5	5.1
6	196.3
7	123.9
8	118.2
9	125.7
Q203	
E	1.1
C	6.2
B	1.8
Q204	
E	6.8
C	11.8
B	7.4
Q206	
E	6.8
C	0
B	6.1
Q208	
E	124.7
C	63.8
B	124.1
Q209	
E	2.7
C	63.8
B	3.2

<FRONT CONTROL PWB>

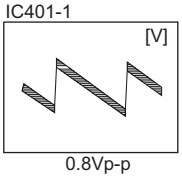
MODE PIN NO.	DC (V)
IC301	
1	2.7
2	3.3
IC481	
1	7.8
2	7.8
3	7.4
4	7.4
5	0
6	7.3
7	7.3
8	7.1
9	7.1
10	11.8
IC801	
1	2.9
2	0
3	3.2
Q481	
E	1.0
C	5.5
B	1.5
Q482	
E	6.3
C	0
B	5.6
Q955	
E	0
C	11.8
B	0

WAVEFORMS

[AV-21MT16/Z, AV-21MT36/Z, AV-25MT16/Z]

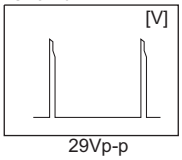
-MAIN PWB-

IC401-1



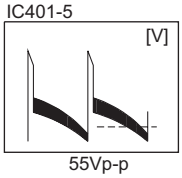
0.8Vp-p

IC401-3



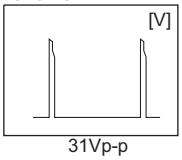
29Vp-p

IC401-5



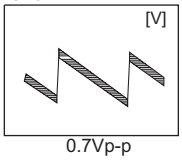
55Vp-p

IC401-6



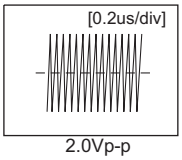
31Vp-p

IC401-7



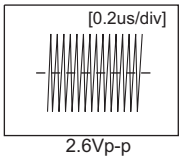
0.7Vp-p

IC701-10



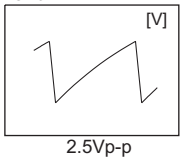
2.0Vp-p

IC701-11



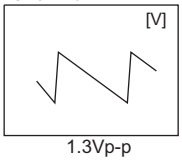
2.6Vp-p

IC701-22



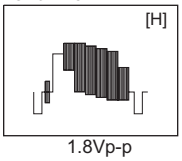
2.5Vp-p

IC701-23



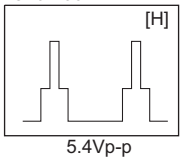
1.3Vp-p

IC701-48



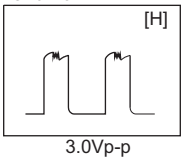
1.8Vp-p

IC701-66



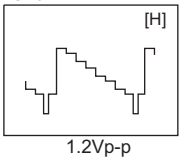
5.4Vp-p

IC701-67



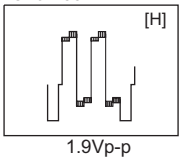
3.0Vp-p

IC701-74



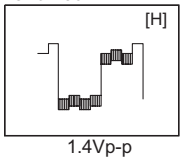
1.2Vp-p

IC701-85



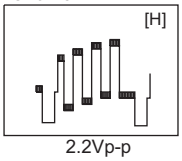
1.9Vp-p

IC701-86



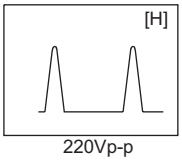
1.4Vp-p

IC701-87



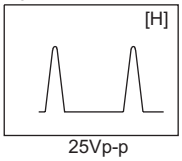
2.2Vp-p

T522-2



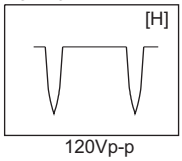
220Vp-p

T522-4



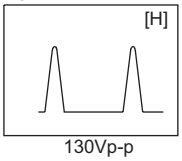
25Vp-p

T522-6



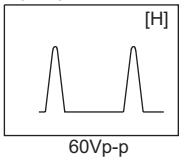
120Vp-p

T522-7



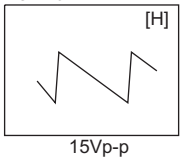
130Vp-p

T522-8



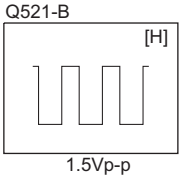
60Vp-p

T522-9



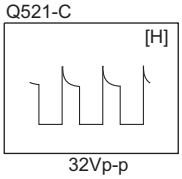
15Vp-p

Q521-B



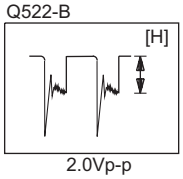
1.5Vp-p

Q521-C



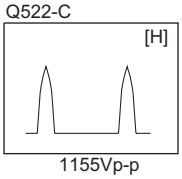
32Vp-p

Q522-B



2.0Vp-p

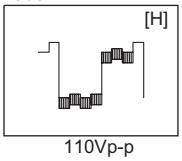
Q522-C



1155Vp-p

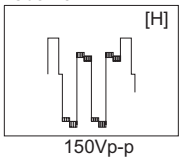
-CRT SOCKET PWB-

IC351-7



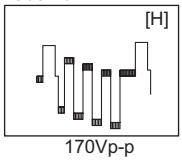
110Vp-p

IC351-8



150Vp-p

IC351-9

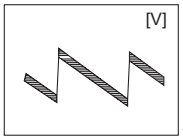


170Vp-p

[AV-29MT16/Z, AV-29MT36/Z]

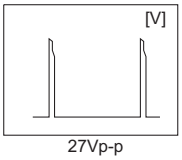
-MAIN PWB-

IC401-1



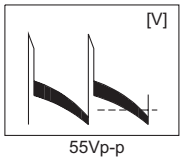
0.8Vp-p

IC401-3



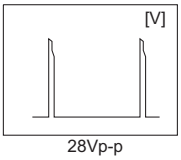
27Vp-p

IC401-5



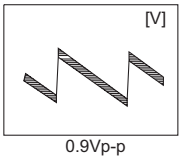
55Vp-p

IC401-6



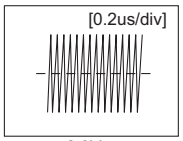
28Vp-p

IC401-7



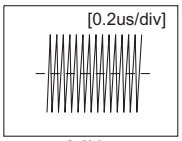
0.9Vp-p

IC701-10



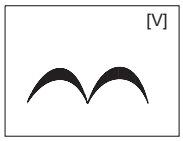
2.3Vp-p

IC701-11



2.8Vp-p

IC701-21

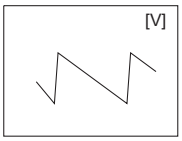


0.4mVp-p

IC701-22

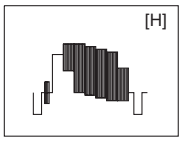
1.3Vp-p

IC701-23



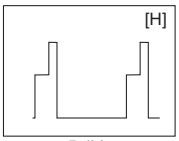
1.5Vp-p

IC701-48



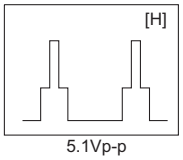
2.1Vp-p

IC701-65



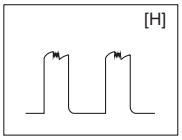
5.4Vp-p

IC701-66



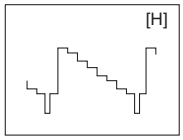
5.1Vp-p

IC701-67



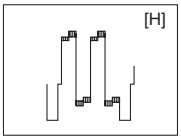
4.3Vp-p

IC701-74



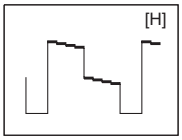
1.2Vp-p

IC701-85



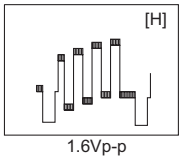
2.0Vp-p

IC701-86



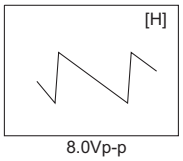
1.3Vp-p

IC701-87



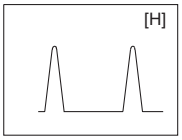
1.6Vp-p

T522-2



8.0Vp-p

T522-3

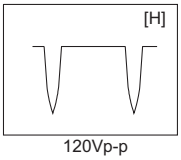


60Vp-p

T522-4

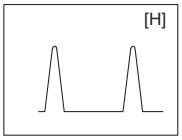
120Vp-p

T522-5



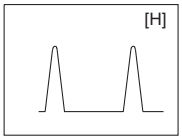
120Vp-p

T522-7



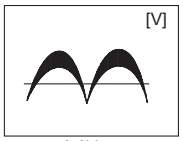
24Vp-p

T522-9



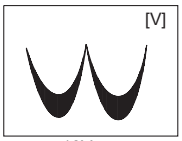
80Vp-p

Q461-G



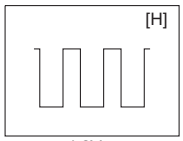
0.6Vp-p

Q461-S



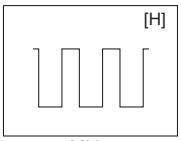
10Vp-p

Q521-B



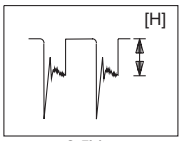
4.2Vp-p

Q521-C



36Vp-p

Q522-B



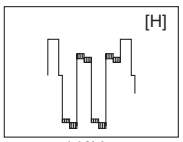
2.5Vp-p

Q522-C

1050Vp-p

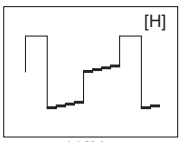
-CRT SOCKET PWB-

IC351-7



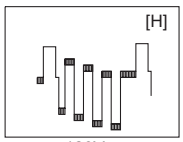
140Vp-p

IC351-8



110Vp-p

IC351-9



120Vp-p

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(No.YA405)

Printed in Japan
VPT

PARTS LIST

CAUTION

- The parts identified by the ⚠ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
		CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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[AV-21MT16/Z, AV-21MT36/Z]

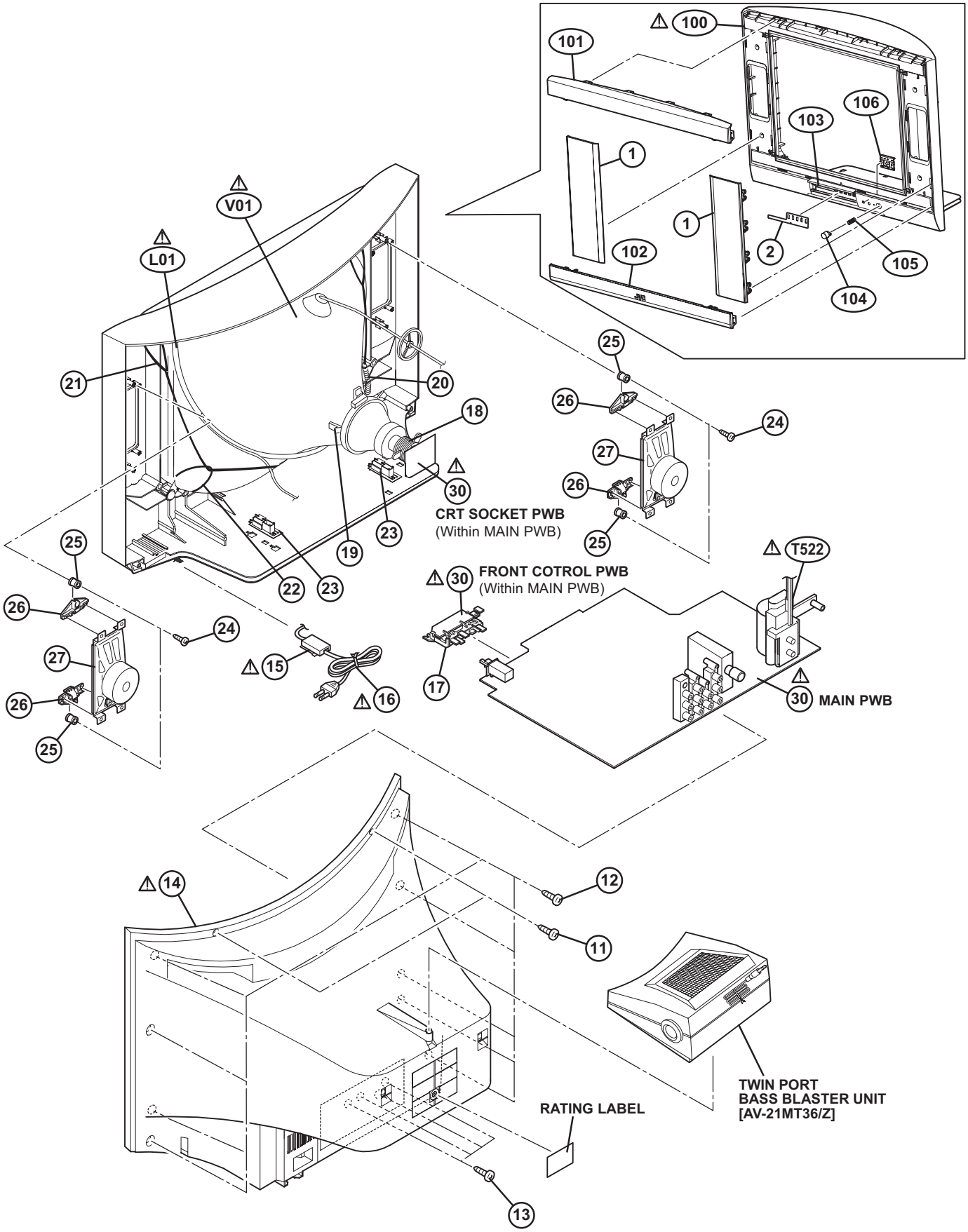
USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y	AV-21MT16/Z	AV-21MT36/Z
MAIN P.W.B	SCW-1793A-H2	SCW-1794A-H2
REMOTE CONTROL UNIT	RM-C1287-1H	←

EXPLODED VIEW PARTS LIST -1

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	A51QGA993X008	PICTURE TUBE(ITC)	Inc. DEF YOKE	
⚠	L01	QQW0210-001	DEG COIL		
⚠	T522	QQH0188-001	FB TRANSF		
	1	GG10341-001B-H	SP PANEL LEFT	(x2)	
	2	GG30117-001A-H	OPERATION SHEET		
	11	QYSBSBG4016ZA	TAP SCREW	M4 x 16mm(x2)	
	12	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x7)	
	13	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x4)	
⚠	14	GG10187-220A-H	REAR COVER		AV-21MT16Z
⚠	14	GG10187-221A-H	REAR COVER		AV-21MT36Z
⚠	15	CM47005-A01-H	POWER CORD CLAMP		
⚠	16	QMPR340-165-K2	POWER CORD	1.65m BLACK	
	17	GG30119-001B-H	SUB PCB HOLDER		
	18	QAL0608-001	PC MAGNET		
	19	QAL0627-001	DY WEDGE	(x3)	
	20	A48457-3-H	SPRING		
	21	WJY0029-001A-E	BRAIDED ASS'Y		
	22	WJY0013-003A-E	BRAIDED ASS'Y		
	23	CM36623-003-H	CHASSIS RAIL	(x2)	
	24	GG40046-001A-H	TAP SCREW	(x4)	
	25	LC40226-005A-H	SPACER	(x4)	
	26	GG20057-002A-H	SPEAKER HOLDER	(x4)	
	27	QAS0139-001	SPEAKER	(x2) SP01,SP02	
⚠	30	SCW-1793A-H2	MAIN PWB		AV-21MT16Z
⚠	30	SCW-1794A-H2	MAIN PWB		AV-21MT36Z
⚠	100	GG10338-001C-H	FRONT CABINET ASS'Y	Inc.101-106	
	101	GG10340-001B-H	FRONT FRAME TOP		
	102	GG10340-002B-H	FRONT FRAME BOTTOM		
	103	GG20082-001B-H	DOOR		
	104	GG30114-001B-H	POWER KNOB		
	105	CM35235-003-H	SPRING		
	106	GG30115-001B-H	LED LENS		

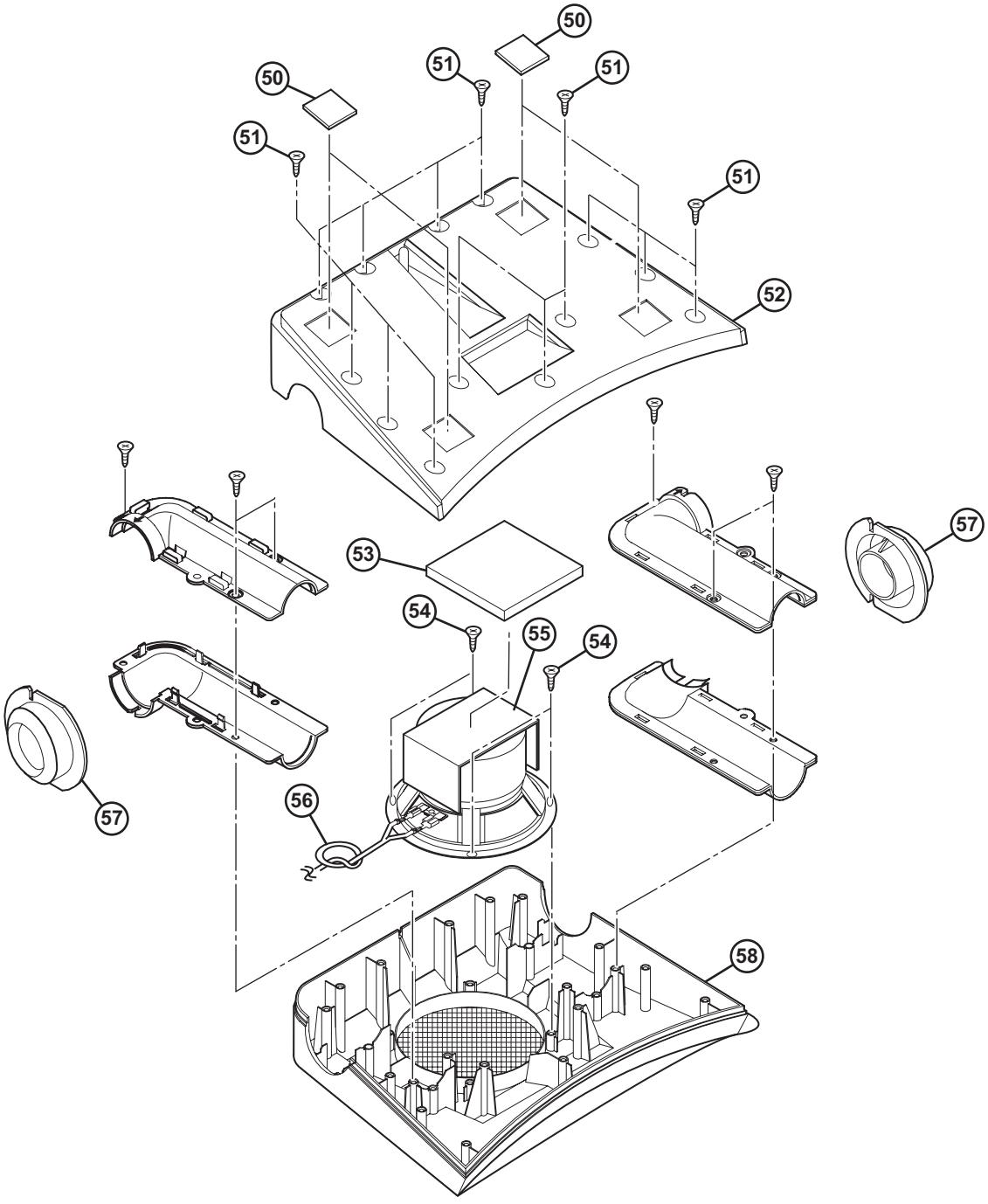
EXPLODED VIEW -1



EXPLODED VIEW PARTS LIST -2 [AV-21MT36/Z]

⚠	Ref.No.	Part No.	Part Name	Description	Local
	50	LC40352-001A-H	RUBBER SHEET	(x4)	
	51	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x13)	
	52	GG10141-001C-H	BASS BOTTOM		
	53	LC41211-001A	SOUND ABSORBER		
	54	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x4)	
	55	QAS0118-001	SPEAKER	SP03	
	56	WJJ0266-002A-E	E-SIC WIRE C-C		
	57	GG30022-001A-H	BASS DUCT R	(x2)	
	58	GG10140-001C-H	BASS TOP		

EXPLODED VIEW -2 [AV-21MT36/Z]



PRINTED WIRING BOARD PARTS LIST [AV-21MT16/Z]

MAIN P.W. BOARD ASS'Y (SCW-1793A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC302	S9648	PHOTO CONDUCTOR		
IC351	TDA6107AJF/N1	IC		
IC401	LA78040N	IC		
IC601	AN5277	IC		
IC701	TDA12021-NTSC	IC(MCU)	(SERVICE)	
IC702	AT24C16-21MT16	IC	(SERVICE)	
IC801	RPM7238-H5	IR DETECT UNIT		
IC901	ICE1QS01	IC		
IC951	SE135N	IC		
IC972	BA33BC0T	IC		
IC973	PQ120RDA1SZ	IC		
IC975	PQ050RDA1SZ	IC		
Q101	2SC5397/CD/-T	TRANSISTOR		
Q341	2SA1530A/QR/-X	TRANSISTOR		
Q421	2SC3928A/QR/-X	TRANSISTOR		
Q422	2SC3928A/QR/-X	TRANSISTOR		
Q521	2SC2655/Y/-T	TRANSISTOR		
⚠Q522	TT2190LS-YB11	TRANSISTOR		
Q571	2SA1208/ST/Z1-T	TRANSISTOR		
Q572	UN2226-X	DIGI TRANSISTOR		
Q601	2SA1530A/QR/-X	TRANSISTOR		
Q602	2SA1530A/QR/-X	TRANSISTOR		
Q603	UN2226-X	DIGI TRANSISTOR		
Q605	UN2226-X	DIGI TRANSISTOR		
Q607	2SC3928A/QR/-X	TRANSISTOR		
Q608	2SC3928A/QR/-X	TRANSISTOR		
Q609	UN2226-X	DIGI TRANSISTOR		
Q611	UN2226-X	DIGI TRANSISTOR		
Q612	2SC3928A/QR/-X	TRANSISTOR		
Q704	2SC3928A/QR/-X	TRANSISTOR		
Q705	SSM3K02F-X	MOS FET		
Q706	SSM3K02F-X	MOS FET		
Q707	2SC3928A/QR/-X	TRANSISTOR		
Q708	2SA1530A/QR/-X	TRANSISTOR		
Q791	2SC3928A/QR/-X	TRANSISTOR		
Q801	KTA1267/YG/-T	TRANSISTOR		
Q803	UN2226-X	DIGI TRANSISTOR		
Q804	UN2226-X	DIGI TRANSISTOR		
Q805	2SA1530A/QR/-X	TRANSISTOR		
Q901	STP13NK60ZFP	POWER MOS FET		
Q955	2SC3928A/QR/-X	TRANSISTOR		
Q981	2SA562TM/Y/-T	TRANSISTOR		
Q982	2SC3928A/QR/-X	TRANSISTOR		
Q983	2SA562TM/Y/-T	TRANSISTOR		
Q984	2SC3928A/QR/-X	TRANSISTOR		
D341	MA111-X	SI DIODE		
D342	MA111-X	SI DIODE		
D343	MA111-X	SI DIODE		
D345	MA111-X	SI DIODE		
D350	MA8075/M/-X	Z DIODE		
D351	FR105SGT-T2	SI DIODE		
D354	FR105GT-T3	SI DIODE		
D355	FR105GT-T3	SI DIODE		
D356	FR105GT-T3	SI DIODE		
D423	1N4003SG-T2	SI DIODE		
D424	1SR35-400A-T2	SI DIODE		
D520	MA111-X	SI DIODE		
D521	ERB06-15E-F1	SI DIODE		
D522	RU3AM-LFC4	SI DIODE		
D523	FR105GT-T3	SI DIODE		
D530	FR105GT-T3	SI DIODE		
D551	FR105GT-T3	SI DIODE		
D552	FR105GT-T3	SI DIODE		
D554	MA8051/L/-X	Z DIODE		
D571	MA8075/H/-X	Z DIODE		
D581	FR105GT-T3	SI DIODE		
D603	MA111-X	SI DIODE		
D607	MA111-X	SI DIODE		
D610	MA111-X	SI DIODE		
D701	MA111-X	SI DIODE		
D702	MA8091/H/-X	Z DIODE		
D703	MA8091/H/-X	Z DIODE		
D704	MA8091/H/-X	Z DIODE		
D706	MA8036-X	Z DIODE		
D707	MA111-X	SI DIODE		
D708	MA111-X	SI DIODE		
D709	MA111-X	SI DIODE		
D710	MA8091/H/-X	Z DIODE		
D711	MA111-X	SI DIODE		
D712	MA111-X	SI DIODE		
D713	MA8039/H/-X	Z DIODE		
D714	MA8030/H/-X	Z DIODE		
D751	MA8091/H/-X	Z DIODE		
D753	MA8091/H/-X	Z DIODE		
D808	LH22440-T16	LED	POWER(RED)	
D810	MA8091/H/-X	Z DIODE		
D811	MA8091/H/-X	Z DIODE		
D812	MA8091/H/-X	Z DIODE		
D813	MA8091/H/-X	Z DIODE		
D814	MA8091/H/-X	Z DIODE		
D817	MA8091/H/-X	Z DIODE		
D901	GSIB460-S1	BRIDGE DIODE		
D921	FR105GT-T3	SI DIODE		
D924	1SR35-400A-T2	SI DIODE		
D925	1SR35-400A-T2	SI DIODE		
D926	MA8180/M/-X	Z DIODE		
D928	MA8180/M/-X	Z DIODE		
D950	MTZJ27B-T2	Z DIODE		
D951	RU4AM-LFM1	SI DIODE		
D952	FR105GT-T3	SI DIODE		
D953	FR105GT-T3	SI DIODE		
D955	FMX-G12S	SI DIODE		
D956	MA111-X	SI DIODE		
D957	MA111-X	SI DIODE		
D958	1SR35-400A-T2	SI DIODE		
D962	MA8330/M/-X	Z DIODE		
D970	MA8082/M/-X	Z DIODE		
D971	MA111-X	SI DIODE		
D972	MA111-X	SI DIODE		
D973	MA111-X	SI DIODE		
D975	MA111-X	SI DIODE		
D981	UDZS2.0B-X	Z DIODE		
D982	UDZS2.0B-X	Z DIODE		
⚠PC901	PS2581AL1/QW/	PHOTO COUPLER		
C001	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C004	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C005	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C006	QETN1HM-336Z	E CAPACITOR	33uF 50V M	
C101	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C103	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C104	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C106	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C110	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C111	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C317	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C341	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C351	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C352	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M	
C353	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K	
C358	QCZ0364-222	C CAPACITOR	2200pF 2kV K	
C422	QCS32HJ-180Z	C CAPACITOR	18pF 500V J	
C423	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C424	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J	
C427	QETM1VM-108	E CAPACITOR	1000uF 35V M	
C428	QEHR1VM-227Z	E CAPACITOR	220uF 35V M	
C430	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J	
C431	QFVF1HJ-184Z	MF CAPACITOR	0.18uF 50V J	
C435	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C436	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C471	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C520	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C521	QCB31HK-332Z	C CAPACITOR	3300pF 50V K	
C522	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	
C523	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
⚠C524	QFZ0196-202	MPP CAPACITOR	2000pF 1.5kV H	
C525	QFZ0196-502	MPP CAPACITOR	5000pF 1.5kV H	
C526	QFZ0196-152	MPP CAPACITOR	1500pF 1.5kV H	
C528	QFP32GJ-563	PP CAPACITOR	0.056uF 400V J	
C529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M	
C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C532	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C551	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C552	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C553	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	
C554	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	
C555	QFLC2AJ-103Z	M CAPACITOR	0.01uF 100V J	
C571	QEZ0203-107	E CAPACITOR	100uF 160V M	

⚠Ref No.	Part No.	Part Name	Description	Local
C572	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C573	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C581	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C582	QFZ0197-204	MPP CAPACITOR	0.2uF 250V J	
C601	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C602	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C603	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C604	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C605	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C606	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C607	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C608	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C609	QETN1HM-336Z	E CAPACITOR	33uF 50V M	
C610	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C613	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C615	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	
C616	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	
C656	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C661	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C662	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C701	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C702	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C703	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C704	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C705	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J	
C706	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J	
C707	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C708	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C709	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C710	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C711	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C712	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C713	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C714	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C715	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C716	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C718	QFZ0229-154Z	MF CAPACITOR	0.15uF 63V K	
C719	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C720	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C723	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C724	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C725	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C726	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C727	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C728	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C729	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C730	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C731	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C732	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C733	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C734	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C735	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C736	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C737	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C738	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C739	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C740	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C741	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C742	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C743	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C744	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C745	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C746	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C747	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C748	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C749	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C750	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C751	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C752	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C753	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C754	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C755	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C756	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C757	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C758	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C759	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C760	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C761	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C762	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C763	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C764	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C765	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C766	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C767	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C768	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C770	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C771	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C772	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C773	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C775	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C776	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C777	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C778	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C779	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C780	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C781	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C782	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C783	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C785	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C790	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C792	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C793	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C802	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C803	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C804	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C806	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C807	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C821	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C822	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C823	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C824	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C825	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C826	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
⚠C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	
⚠C902	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	
⚠C903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	
⚠C904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	
⚠C905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	
C906	QEZ0476-227	E CAPACITOR	220uF 400V H	
C908	QRL029J-223	OMF RESISTOR	22kΩ 2W J	
⚠C910	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	
C915	QCZ0364-152	C CAPACITOR	1500pF 2kV K	
C916	QCZ0122-561	C CAPACITOR	560pF 2kV K	
C921	QCZ0122-391	C CAPACITOR	390pF 2kV K	
C922	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C923	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C924	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C925	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C927	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C930	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C952	QCB32HK-471Z	C CAPACITOR	470pF 500V K	
C953	QCB32HK-471Z	C CAPACITOR	470pF 500V K	
C955	QCB32HK-471Z	C CAPACITOR	470pF 500V K	
C956	QEZ0203-107	E CAPACITOR	100uF 160V M	
C958	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	
C960	QETM1VM-228	E CAPACITOR	2200uF 35V M	
C962	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C963	QCZ0364-102	C CAPACITOR	1000pF 2kV K	
C965	QETN1AM-228Z	E CAPACITOR	2200uF 10V M	
C966	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C967	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C969	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C975	QEHR1AM-228Z	E CAPACITOR	2200uF 10V M	
C977	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C979	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	
C980	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C984	QETN1HM-336Z	E CAPACITOR	33uF 50V M	
⚠C991	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
⚠C992	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
⚠C993	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
C994	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M	
C995	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
R001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R004	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R101	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R102	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R103	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R104	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R106	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R315	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R316	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R317	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R324	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R325	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R327	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R328	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R344	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R351	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R352	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	

⚠Ref No.	Part No.	Part Name	Description Local
R353	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R354	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R355	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R356	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R357	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R358	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R359	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R360	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R369	QRE121J-104Y	C RESISTOR	100kΩ 1/2W J
R411	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R412	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R421	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R422	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R426	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R427	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R430	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R432	QRX01GJ-2R7	MF RESISTOR	2.7Ω 1W J
R433	QRE121J-120Y	C RESISTOR	12Ω 1/2W J
R434	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R440	QRG01GJ-221	OMF RESISTOR	220Ω 1W J
R448	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J
R471	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J
R472	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R473	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R474	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R520	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R521	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R522	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R523	QRL029J-271	OMF RESISTOR	270Ω 2W J
R524	QRL039J-470	OMF RESISTOR	47Ω 3W J
R527	QRL039J-393	OMF RESISTOR	39kΩ 3W J
R528	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
⚠R530	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
⚠R533	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
R551	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
R552	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
R554	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R569	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K
R572	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R573	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R574	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R575	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R581	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R582	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R583	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R601	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R602	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R604	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R606	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R607	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R609	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R610	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R611	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R612	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R614	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R618	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R620	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R621	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R623	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R624	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R626	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R629	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R630	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R631	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R632	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R633	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R634	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R636	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R637	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R639	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R640	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R649	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R701	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R705	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R706	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R707	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R708	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R709	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R711	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R712	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R713	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R714	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R715	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R716	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R717	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R718	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R719	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R726	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R727	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R728	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R730	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R731	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R733	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R734	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R735	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R736	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R737	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R739	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R740	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R741	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R742	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R743	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R744	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R745	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R747	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R748	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R749	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R750	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R751	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R752	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R753	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R754	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R755	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R756	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R758	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R759	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R760	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R761	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R762	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R763	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R764	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R765	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R768	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R771	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R772	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R773	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R774	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R775	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R776	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R777	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R782	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R783	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R785	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R786	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R787	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R788	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R790	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R792	QRE121J-330Y	C RESISTOR	33Ω 1/2W J
R793	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R794	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R795	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R802	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R803	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R804	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R807	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R809	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R810	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R811	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R812	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R813	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R814	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R815	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R816	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R818	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R819	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R820	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R821	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R822	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R823	QRE121J-470Y	C RESISTOR	47Ω 1/2W J
R824	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R901	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K
R907	QRL029J-273	OMF RESISTOR	27kΩ 2W J
R922	QRL039J-473	OMF RESISTOR	47kΩ 3W J
R923	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J
R924	QRE121J-224Y	C RESISTOR	220kΩ 1/2W J

⚠Ref No.	Part No.	Part Name	Description Local
R925	QRE121J-334Y	C RESISTOR	330kΩ 1/2W J
R927	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R930	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R931	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R933	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R934	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J
R935	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
⚠R936	QRZ9017-2R2	FUSI RESISTOR	2.2Ω 1/4W J
R951	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R952	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R961	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R962	QRL029J-223	OMF RESISTOR	22kΩ 2W J
R963	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R964	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R965	QRT029J-1R2	MF RESISTOR	1.2Ω 2W J
R970	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R972	QRT029J-3R9	MF RESISTOR	3.9Ω 2W J
R976	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R977	QRL039J-120	OMF RESISTOR	12Ω 3W J
R978	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R981	QRE121J-3R9Y	C RESISTOR	3.9Ω 1/2W J
R982	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R983	QRE121J-3R9Y	C RESISTOR	3.9Ω 1/2W J
R984	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R985	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R986	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
⚠R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K
L002	QQL244J-4R7Z	PEAKING COIL	4.7uH J
L003	QQL244J-4R7Z	PEAKING COIL	4.7uH J
L101	QQL244K-1R0Z	PEAKING COIL	1uH K
L351	QQL244J-220Z	COIL	22uH J
L522	QQR1005-002	LINEARITY COIL	
L530	QQL244K-220Z	PEAKING COIL	22uH K
L551	QQLZ026-240	COIL	24uH ±7%
L701	NQR0199-004X	FERRITE BEADS	
L702	NQR0199-004X	FERRITE BEADS	
L703	NQR0199-004X	FERRITE BEADS	
L704	NQR0199-004X	FERRITE BEADS	
L705	NQR0199-004X	FERRITE BEADS	
L706	NQR0199-004X	FERRITE BEADS	
L707	NQR0199-004X	FERRITE BEADS	
L708	NQR0199-004X	FERRITE BEADS	
L709	NQR0199-004X	FERRITE BEADS	
L710	NQR0199-004X	FERRITE BEADS	
L711	NQR0199-004X	FERRITE BEADS	
L712	NQR0199-004X	FERRITE BEADS	
L713	NQR0199-004X	FERRITE BEADS	
L714	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L715	NQR0199-004X	FERRITE BEADS	
L716	NQR0199-004X	FERRITE BEADS	
L717	NQR0199-004X	FERRITE BEADS	
L718	NQR0199-004X	FERRITE BEADS	
L951	QQLZ026-460	COIL	46uH ±7%
T521	QQR1522-001	DRIVE TRANSF	
⚠T921	QQS0345-001	SW TRANSF	
CF101	QAX0349-001	C TRAP	47.25MHz
⚠CP650	ICP-N25-T	IC PROTECTOR	1.0A
⚠CP952	ICP-N38-T	IC PROTECTOR	1.5A
⚠CP953	ICP-N38-T	IC PROTECTOR	1.5A
⚠CP955	ICP-N75-T	IC PROTECTOR	2.7A
⚠F901	QMF51E2-4R0-S	FUSE	4A AC250V
J801	QNZ0454-002	PIN JACK	VIDEO1 IN
J802	QNN0349-002	PIN JACK	VIDEO2/COMP IN
J803	QNN0348-001	PIN JACK	VIDEO2 L/R IN
J804	QNN0349-001	PIN JACK	VIDEO OUT
J806	QNN0281-003	PIN JACK	VIDEO3 V IN
J807	QNN0281-002	PIN JACK	VIDEO3 L IN
J808	QNN0282-001	PIN JACK	VIDEO3 R IN
J809	QNS0155-001	3.5 JACK	HEADPHONE
K101	QQR1114-001Z	FERRITE BEADS	
K104	QQR1114-001Z	FERRITE BEADS	
K356	QQR0601-001Z	COIL	
K901	QQR1114-001Z	FERRITE BEADS	
K951	QQR1114-001Z	FERRITE BEADS	
K952	QQR1113-001Z	FERRITE BEADS	
K953	QQR1113-001Z	FERRITE BEADS	
K955	QQR1113-001Z	FERRITE BEADS	
LC801	QQR1199-002	EMI FILTER	
LC802	QQR1199-002	EMI FILTER	
LC803	QQR1199-002	EMI FILTER	
LC804	QQR1199-002	EMI FILTER	
LC805	QQR1199-002	EMI FILTER	
⚠LF901	QQR0673-004	LINE FILTER	
⚠LF902	QQR1635-001	LINE FILTER	
⚠RY901	QSK0061-002	RELAY	

⚠Ref No.	Part No.	Part Name	Description Local
S801	QSW0619-003Z	PUSH SWITCH	MENU
S802	QSW0619-003Z	PUSH SWITCH	CH-
S803	QSW0619-003Z	PUSH SWITCH	CH+
S804	QSW0619-003Z	PUSH SWITCH	VOL-
S805	QSW0619-003Z	PUSH SWITCH	VOL+
⚠S901	QSW0750-001	PUSH SWITCH	POWER
SF102	QAX0723-001	SAW FILTER	
⚠SK351	QNZ0536-002	CRT SOCKET	
⚠TH901	QAD0134-4R5	P THERMISTOR	4.5Ω
TU001	QAU0353-002	TUNER	
⚠VA901	QAF0060-621	VARISTOR	620V
X701	QAX0799-001Z	X TAL	24.576MHz
	GG30118-001A-H	LED HOLDER	
	GG30138-001A-H	EE HOLDER	

PRINTED WIRING BOARD PARTS LIST [AV-21MT36/Z]

MAIN P.W. BOARD ASS'Y (SCW-1794A-H2)

⚠Ref No.	Part No.	Part Name	Description Local
IC302	S9648	PHOTO CONDUCTOR	
IC351	TDA6107AJF/N1	IC	
IC401	LA78040N	IC	
IC601	AN7585	IC	
IC651	RC4558D-X	IC	
IC701	TDA12021-NTSC	IC(MCU)	(SERVICE)
IC702	AT24C16-21MT16	IC	(SERVICE)
IC801	RPM7238-H5	IR DETECT UNIT	
IC901	ICE1QS01	IC	
IC951	SE135N	IC	
IC972	BA33BC0T	IC	
IC973	PQ120RDA1SZ	IC	
IC975	PQ050RDA1SZ	IC	
Q101	2SC5397/CD/-T	TRANSISTOR	
Q341	2SA1530A/QR/-X	TRANSISTOR	
Q421	2SC3928A/QR/-X	TRANSISTOR	
Q422	2SC3928A/QR/-X	TRANSISTOR	
Q521	2SC2655/Y/-T	TRANSISTOR	
⚠Q522	TT2190LS-YB11	TRANSISTOR	
Q571	2SA1208/ST/Z1-T	TRANSISTOR	
Q572	UN2226-X	DIGI TRANSISTOR	
Q601	2SA1530A/QR/-X	TRANSISTOR	
Q602	2SA1530A/QR/-X	TRANSISTOR	
Q603	UN2226-X	DIGI TRANSISTOR	
Q604	UN2226-X	DIGI TRANSISTOR	
Q605	UN2226-X	DIGI TRANSISTOR	
Q606	UN2226-X	DIGI TRANSISTOR	
Q607	2SC3928A/QR/-X	TRANSISTOR	
Q608	2SC3928A/QR/-X	TRANSISTOR	
Q609	UN2226-X	DIGI TRANSISTOR	
Q610	UN2226-X	DIGI TRANSISTOR	
Q611	UN2226-X	DIGI TRANSISTOR	
Q612	2SC3928A/QR/-X	TRANSISTOR	
Q704	2SC3928A/QR/-X	TRANSISTOR	
Q705	SSM3K02F-X	MOS FET	
Q706	SSM3K02F-X	MOS FET	
Q707	2SC3928A/QR/-X	TRANSISTOR	
Q708	2SA1530A/QR/-X	TRANSISTOR	
Q791	2SC3928A/QR/-X	TRANSISTOR	
Q801	KTA1267/YG/-T	TRANSISTOR	
Q803	UN2226-X	DIGI TRANSISTOR	
Q804	UN2226-X	DIGI TRANSISTOR	
Q805	2SA1530A/QR/-X	TRANSISTOR	
Q901	STP13NK60ZFP	POWER MOS FET	
Q955	2SC3928A/QR/-X	TRANSISTOR	
Q981	2SA562TM/Y/-T	TRANSISTOR	
Q982	2SC3928A/QR/-X	TRANSISTOR	
Q983	2SA562TM/Y/-T	TRANSISTOR	
Q984	2SC3928A/QR/-X	TRANSISTOR	
D341	MA111-X	SI DIODE	
D342	MA111-X	SI DIODE	
D343	MA111-X	SI DIODE	
D345	MA111-X	SI DIODE	
D350	MA8075/M/-X	Z DIODE	
D351	FR105SGT-T2	SI DIODE	
D354	FR105GT-T3	SI DIODE	
D355	FR105GT-T3	SI DIODE	
D356	FR105GT-T3	SI DIODE	
D423	1N4003SG-T2	SI DIODE	
D424	1SR35-400A-T2	SI DIODE	
D520	MA111-X	SI DIODE	
D521	ERB06-15E-F1	SI DIODE	
D522	RU3AM-LFC4	SI DIODE	
D523	FR105GT-T3	SI DIODE	
D530	FR105GT-T3	SI DIODE	
D551	FR105GT-T3	SI DIODE	
D552	FR105GT-T3	SI DIODE	
D554	MA8051/L/-X	Z DIODE	
D571	MA8075/H/-X	Z DIODE	
D581	FR105GT-T3	SI DIODE	
D602	MA111-X	SI DIODE	
D603	MA111-X	SI DIODE	
D606	MA8300/H/-X	Z DIODE	
D607	MA111-X	SI DIODE	
D608	MA111-X	SI DIODE	
D609	MA111-X	SI DIODE	
D610	MA111-X	SI DIODE	
D651	MA8062/M/-X	Z DIODE	
D701	MA111-X	SI DIODE	
D702	MA8091/H/-X	Z DIODE	
D703	MA8091/H/-X	Z DIODE	
D704	MA8091/H/-X	Z DIODE	
D706	MA8036-X	Z DIODE	
D707	MA111-X	SI DIODE	
D708	MA111-X	SI DIODE	
D709	MA111-X	SI DIODE	
D710	MA8091/H/-X	Z DIODE	
D711	MA111-X	SI DIODE	
D712	MA111-X	SI DIODE	
D713	MA8039/H/-X	Z DIODE	
D714	MA8030/H/-X	Z DIODE	
D751	MA8091/H/-X	Z DIODE	
D753	MA8091/H/-X	Z DIODE	
D808	LH22440-T16	LED	POWER(RED)
D810	MA8091/H/-X	Z DIODE	
D811	MA8091/H/-X	Z DIODE	
D812	MA8091/H/-X	Z DIODE	
D813	MA8091/H/-X	Z DIODE	
D814	MA8091/H/-X	Z DIODE	
D817	MA8091/H/-X	Z DIODE	
D901	GSIB460-S1	BRIDGE DIODE	
D921	FR105GT-T3	SI DIODE	
D924	1SR35-400A-T2	SI DIODE	
D925	1SR35-400A-T2	SI DIODE	
D926	MA8180/M/-X	Z DIODE	
D928	MA8180/M/-X	Z DIODE	
D950	MTZJ27B-T2	Z DIODE	
D951	RU4AM-LFM1	SI DIODE	
D952	FR105GT-T3	SI DIODE	
D953	FR105GT-T3	SI DIODE	
D955	FMX-G12S	SI DIODE	
D956	MA111-X	SI DIODE	
D957	MA111-X	SI DIODE	
D958	1SR35-400A-T2	SI DIODE	
D962	MA8330/M/-X	Z DIODE	
D970	MA8082/M/-X	Z DIODE	
D971	MA111-X	SI DIODE	
D972	MA111-X	SI DIODE	
D973	MA111-X	SI DIODE	
D975	MA111-X	SI DIODE	
D981	UDZS2.0B-X	Z DIODE	
D982	UDZS2.0B-X	Z DIODE	
⚠PC901	PS2581AL1/QW/	PHOTO COUPLER	
C001	NCB21HK-103X	C CAPACITOR	0.01uF 50V K
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C004	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C005	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C006	QETN1HM-336Z	E CAPACITOR	33uF 50V M
C101	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C103	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C104	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C106	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C110	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C111	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C317	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C341	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C351	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C352	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M
C353	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C358	QCZ0364-222	C CAPACITOR	2200pF 2kV K
C422	QCS32HJ-180Z	C CAPACITOR	18pF 500V J
C423	NCB31HK-682X	C CAPACITOR	6800pF 50V K
C424	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J
C427	QETM1VM-108	E CAPACITOR	1000uF 35V M
C428	QEHR1VM-227Z	E CAPACITOR	220uF 35V M
C430	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J
C431	QFVF1HJ-184Z	MF CAPACITOR	0.18uF 50V J
C435	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
C436	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
C471	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C520	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C521	QCB31HK-332Z	C CAPACITOR	3300pF 50V K
C522	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J
C523	QETN1VM-476Z	E CAPACITOR	47uF 35V M
⚠C524	QFZ0196-202	MPP CAPACITOR	2000pF 1.5kV H
C525	QFZ0196-502	MPP CAPACITOR	5000pF 1.5kV H
C526	QFZ0196-152	MPP CAPACITOR	1500pF 1.5kV H
C528	QFP32GJ-563	PP CAPACITOR	0.056uF 400V J

⚠Ref No.	Part No.	Part Name	Description Local
C529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M
C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K
C532	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C551	QCB32HK-561Z	C CAPACITOR	560pF 500V K
C552	QCB32HK-561Z	C CAPACITOR	560pF 500V K
C553	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M
C554	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M
C555	QFLC2AJ-103Z	M CAPACITOR	0.01uF 100V J
C571	QEZ0203-107	E CAPACITOR	100uF 160V M
C572	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C573	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C581	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
C582	QFZ0197-204	MPP CAPACITOR	0.2uF 250V J
C601	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C602	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C603	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C604	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C605	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C606	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C607	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C608	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C609	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C610	QETN1CM-337Z	E CAPACITOR	330uF 16V M
C611	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C612	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C613	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C614	QETM1VM-228	E CAPACITOR	2200uF 35V M
C615	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C616	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C617	NCB31CK-105X	C CAPACITOR	1uF 16V K
C651	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C652	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C653	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C654	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C655	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C656	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C657	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M
C658	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M
C659	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C660	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C661	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C662	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C665	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C701	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C702	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C703	QETN1AM-477Z	E CAPACITOR	470uF 10V M
C704	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C705	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J
C706	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J
C707	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C708	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C709	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C710	NCB31HK-682X	C CAPACITOR	6800pF 50V K
C711	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C712	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J
C713	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C714	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C715	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C716	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C718	QFZ0229-154Z	MF CAPACITOR	0.15uF 63V K
C719	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C720	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C723	NCB31CK-105X	C CAPACITOR	1uF 16V K
C724	NCB31CK-105X	C CAPACITOR	1uF 16V K
C725	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C726	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C727	NCB31HK-332X	C CAPACITOR	3300pF 50V K
C728	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C729	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C730	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C731	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C732	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C733	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C734	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C735	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C736	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C737	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C738	NCB31CK-105X	C CAPACITOR	1uF 16V K
C739	NCB31CK-105X	C CAPACITOR	1uF 16V K
C740	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C741	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C742	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C743	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C744	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C745	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C746	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C747	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C748	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C749	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C750	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C751	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C752	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C753	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C754	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C755	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C756	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C757	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C758	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C759	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C760	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C761	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C762	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C763	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C764	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C765	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C766	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C767	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C768	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C770	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C771	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C772	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C773	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C775	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C776	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C777	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C778	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C779	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C780	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C781	NCB31CK-105X	C CAPACITOR	1uF 16V K
C782	NCB31CK-105X	C CAPACITOR	1uF 16V K
C783	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C785	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C790	NDC31HJ-270X	C CAPACITOR	27pF 50V J
C792	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C793	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C802	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C803	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C804	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C806	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C807	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C821	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C822	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C823	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C824	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C825	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C826	NCB31HK-152X	C CAPACITOR	1500pF 50V K
⚠C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K
⚠C902	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K
⚠C903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
⚠C904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
⚠C905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C906	QEZ0649-337	E CAPACITOR	330uF 400V M
C908	QRL029J-223	OMF RESISTOR	22kΩ 2W J
⚠C910	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K
C915	QCZ0364-152	C CAPACITOR	1500pF 2kV K
C916	QCZ0122-561	C CAPACITOR	560pF 2kV K
C921	QCZ0122-391	C CAPACITOR	390pF 2kV K
C922	NDC31HJ-820X	C CAPACITOR	82pF 50V J
C923	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C924	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C925	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C927	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C930	NDC31HJ-821X	C CAPACITOR	820pF 50V J
C952	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C953	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C955	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C956	QEZ0203-107	E CAPACITOR	100uF 160V M
C958	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M
C960	QETM1VM-228	E CAPACITOR	2200uF 35V M
C962	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C963	QCZ0364-102	C CAPACITOR	1000pF 2kV K
C965	QETN1AM-228Z	E CAPACITOR	2200uF 10V M
C966	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C967	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C969	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C975	QEHR1AM-228Z	E CAPACITOR	2200uF 10V M
C977	QETN1AM-477Z	E CAPACITOR	470uF 10V M
C979	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C980	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C984	QETN1HM-336Z	E CAPACITOR	33uF 50V M
⚠C991	QCZ9079-102	C CAPACITOR	1000pF AC250V M
⚠C992	QCZ9079-102	C CAPACITOR	1000pF AC250V M
⚠C993	QCZ9079-102	C CAPACITOR	1000pF AC250V M
C994	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M

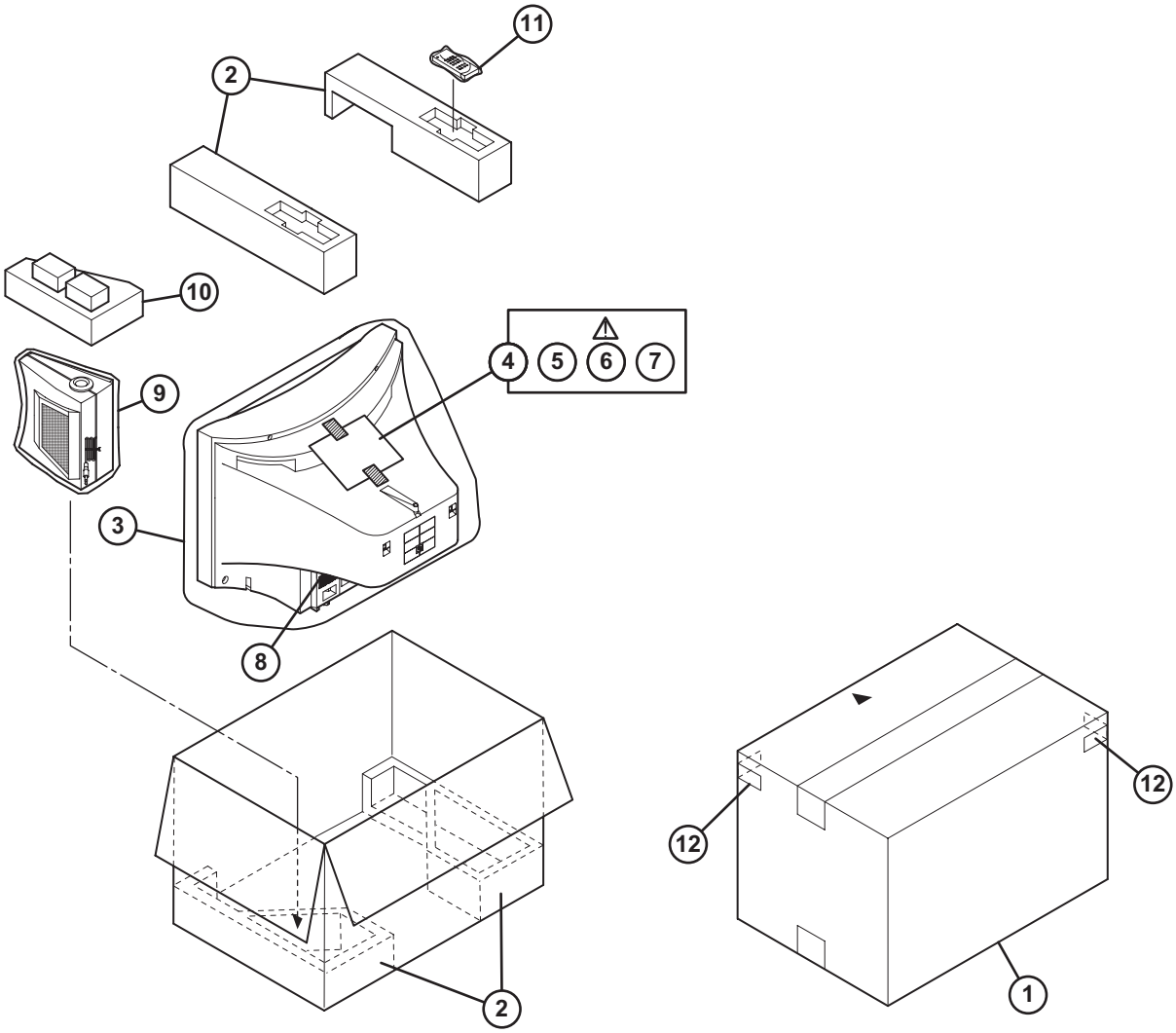
⚠Ref No.	Part No.	Part Name	Description Local
C995	QETN1CM-477Z	E CAPACITOR	470uF 16V M
R001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R004	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R101	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R102	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R103	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R104	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R106	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J
R315	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R316	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R317	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R324	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R325	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R327	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R328	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R344	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R351	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R352	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R353	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R354	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R355	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R356	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R357	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R358	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R359	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R360	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R369	QRE121J-104Y	C RESISTOR	100kΩ 1/2W J
R411	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R412	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R421	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R422	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R426	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R427	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R430	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R432	QRX01GJ-2R7	MF RESISTOR	2.7Ω 1W J
R433	QRE121J-120Y	C RESISTOR	12Ω 1/2W J
R434	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R440	QRG01GJ-221	OMF RESISTOR	220Ω 1W J
R448	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J
R471	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J
R472	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R473	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R474	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R520	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R521	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R522	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R523	QRL029J-271	OMF RESISTOR	270Ω 2W J
R524	QRL039J-470	OMF RESISTOR	47Ω 3W J
R527	QRL039J-393	OMF RESISTOR	39kΩ 3W J
R528	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
⚠R530	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
⚠R533	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
R551	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
R552	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
R554	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R569	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K
R572	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R573	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R574	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R575	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R581	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R582	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R583	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R601	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R602	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R604	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R605	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R606	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R607	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R609	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R610	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R611	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R612	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R613	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R614	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R615	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R617	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R618	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R619	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R620	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R621	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R623	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R624	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R625	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R626	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R629	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R630	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R631	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R632	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R633	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R634	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R635	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R636	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R637	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R638	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R639	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R640	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R649	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R651	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R653	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R654	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R655	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R656	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R657	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R658	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R659	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R662	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R663	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R664	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R701	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R705	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R706	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R707	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R708	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R709	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R711	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R712	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R713	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R714	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R715	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R716	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R717	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R718	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R719	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R720	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R721	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R726	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R727	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R728	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R730	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R731	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R733	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R734	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R735	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R736	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R737	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R739	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R740	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R741	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R743	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R745	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R747	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R748	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R749	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R750	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R751	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R752	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R753	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R754	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R755	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R756	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R758	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R759	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R760	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R761	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R762	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R763	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R764	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R765	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R768	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R771	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R772	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R773	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R774	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R775	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R776	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R777	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R782	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R783	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R785	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R786	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R787	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R788	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R790	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R792	QRE121J-330Y	C RESISTOR	33Ω 1/2W J
R793	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R794	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R795	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R802	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R803	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R804	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R807	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R809	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R810	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R811	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R812	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R813	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R814	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R815	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R816	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R818	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R819	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R820	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R821	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R822	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R823	QRE121J-470Y	C RESISTOR	47Ω 1/2W J
R824	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R901	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K
R907	QRL029J-273	OMF RESISTOR	27kΩ 2W J
R922	QRL039J-473	OMF RESISTOR	47kΩ 3W J
R923	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J
R924	QRE121J-224Y	C RESISTOR	220kΩ 1/2W J
R925	QRE121J-334Y	C RESISTOR	330kΩ 1/2W J
R927	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R930	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R931	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R933	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R934	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J
R935	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
⚠R936	QRZ9017-2R2	FUSI RESISTOR	2.2Ω 1/4W J
R951	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R952	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R961	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R962	QRL029J-223	OMF RESISTOR	22kΩ 2W J
R963	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R964	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R970	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R972	QRT029J-3R9	MF RESISTOR	3.9Ω 2W J
R976	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R977	QRL039J-120	OMF RESISTOR	12Ω 3W J
R978	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R981	QRE121J-3R9Y	C RESISTOR	3.9Ω 1/2W J
R982	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R983	QRE121J-3R9Y	C RESISTOR	3.9Ω 1/2W J
R984	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R985	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R986	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
⚠R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K
L002	QQL244J-4R7Z	PEAKING COIL	4.7uH J
L003	QQL244J-4R7Z	PEAKING COIL	4.7uH J
L101	QQL244K-1R0Z	PEAKING COIL	1uH K
L351	QQL244J-220Z	COIL	22uH J
L522	QQR1005-002	LINEARITY COIL	
L530	QQL244K-220Z	PEAKING COIL	22uH K
L551	QQLZ026-240	COIL	24uH ±7%
L651	QQL244J-4R7Z	PEAKING COIL	4.7uH J
L701	NQR0199-004X	FERRITE BEADS	
L702	NQR0199-004X	FERRITE BEADS	
L703	NQR0199-004X	FERRITE BEADS	
L704	NQR0199-004X	FERRITE BEADS	
L705	NQR0199-004X	FERRITE BEADS	
L706	NQR0199-004X	FERRITE BEADS	
L707	NQR0199-004X	FERRITE BEADS	
L708	NQR0199-004X	FERRITE BEADS	
L709	NQR0199-004X	FERRITE BEADS	
L710	NQR0199-004X	FERRITE BEADS	
L711	NQR0199-004X	FERRITE BEADS	
L712	NQR0199-004X	FERRITE BEADS	
L713	NQR0199-004X	FERRITE BEADS	
L714	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L715	NQR0199-004X	FERRITE BEADS	
L716	NQR0199-004X	FERRITE BEADS	
L717	NQR0199-004X	FERRITE BEADS	
L718	NQR0199-004X	FERRITE BEADS	
L951	QQLZ026-460	COIL	46uH ±7%
T521	QQR1522-001	DRIVE TRANSF	
⚠T921	QQS0345-001	SW TRANSF	
CF101	QAX0349-001	C TRAP	47.25MHz
⚠CP650	ICP-N50-T	IC PROTECTOR	2.0A
⚠CP952	ICP-N38-T	IC PROTECTOR	1.5A
⚠CP953	ICP-N38-T	IC PROTECTOR	1.5A
⚠CP955	ICP-N75-T	IC PROTECTOR	2.7A
⚠F901	QMF51E2-4R0-S	FUSE	4A AC250V
J801	QNZ0454-002	PIN JACK	VIDEO1 IN
J802	QNN0349-002	PIN JACK	VIDEO2/COMP IN
J803	QNN0348-001	PIN JACK	VIDEO2 L/R IN
J804	QNN0349-001	PIN JACK	VIDEO OUT
J805	QNS0100-001	3.5 JACK	BASS SPEAKER OUT
J806	QNN0281-003	PIN JACK	VIDEO3 V IN
J807	QNN0281-002	PIN JACK	VIDEO3 L IN
J808	QNN0282-001	PIN JACK	VIDEO3 R IN
J809	QNS0155-001	3.5 JACK	HEADPHONE
K101	QQR1114-001Z	FERRITE BEADS	
K104	QQR1114-001Z	FERRITE BEADS	
K356	QQR0601-001Z	COIL	
K901	QQR1114-001Z	FERRITE BEADS	
K951	QQR1114-001Z	FERRITE BEADS	
K952	QQR1113-001Z	FERRITE BEADS	
K953	QQR1113-001Z	FERRITE BEADS	
K955	QQR1113-001Z	FERRITE BEADS	
LC801	QQR1199-002	EMI FILTER	
LC802	QQR1199-002	EMI FILTER	
LC803	QQR1199-002	EMI FILTER	
LC804	QQR1199-002	EMI FILTER	
LC805	QQR1199-002	EMI FILTER	
⚠LF901	QQR0673-004	LINE FILTER	
⚠LF902	QQR1635-001	LINE FILTER	
⚠RY901	QSK0061-002	RELAY	
S801	QSW0619-003Z	PUSH SWITCH	MENU
S802	QSW0619-003Z	PUSH SWITCH	CH-
S803	QSW0619-003Z	PUSH SWITCH	CH+
S804	QSW0619-003Z	PUSH SWITCH	VOL-
S805	QSW0619-003Z	PUSH SWITCH	VOL+
⚠S901	QSW0750-001	PUSH SWITCH	POWER
SF102	QAX0723-001	SAW FILTER	
⚠SK351	QNZ0536-002	CRT SOCKET	
⚠TH901	QAD0134-4R5	P THERMISTOR	4.5Ω
TU001	QAU0353-002	TUNER	
⚠VA901	QAF0060-621	VARISTOR	620V
X701	QAX0799-001Z	X TAL	24.576MHz
	GG30118-001A-H	LED HOLDER	
	GG30138-001A-H	EE HOLDER	

REMOTE CONTROL UNIT PARTS LIST (RM-C1287-1H)

⚠	Ref No.	Part No.	Part Name	Description	Local
		R25-8566	BATTERY COVER		

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	GG10285-009B-H	PACKING CASE		
	2	GG10407-001A-H	CUSHION ASS'Y	4pcs in 1set	
	3	GG30097-003A-H	POLY BAG		
	4	GG30096-001A-H	POLY BAG		
	5	----------	BATTERY	AA/R6 1.5V(x2)	
⚠	6	GGT0114-001A-H	INST BOOK	English,Spanish	
	7	QAM0028-001	MATCHING BOX		
	8	GG40042-001A-H	CORD CLAMP R/C		
	9	GG30097-007A-H	POLY BAG		AV-21MT36Z
	10	GG10388-001B-H	BASS TOP CUSHION		AV-21MT36Z
	11	RM-C1287-1H	REMOCON UNIT		
	12	GG30147-001B-H	CORNER LABEL	2pcs in 1set	AV-21MT16Z
	12	GG30147-002A-H	CORNER LABEL	2pcs in 1set	AV-21MT36Z

[AV-25MT16/Z]

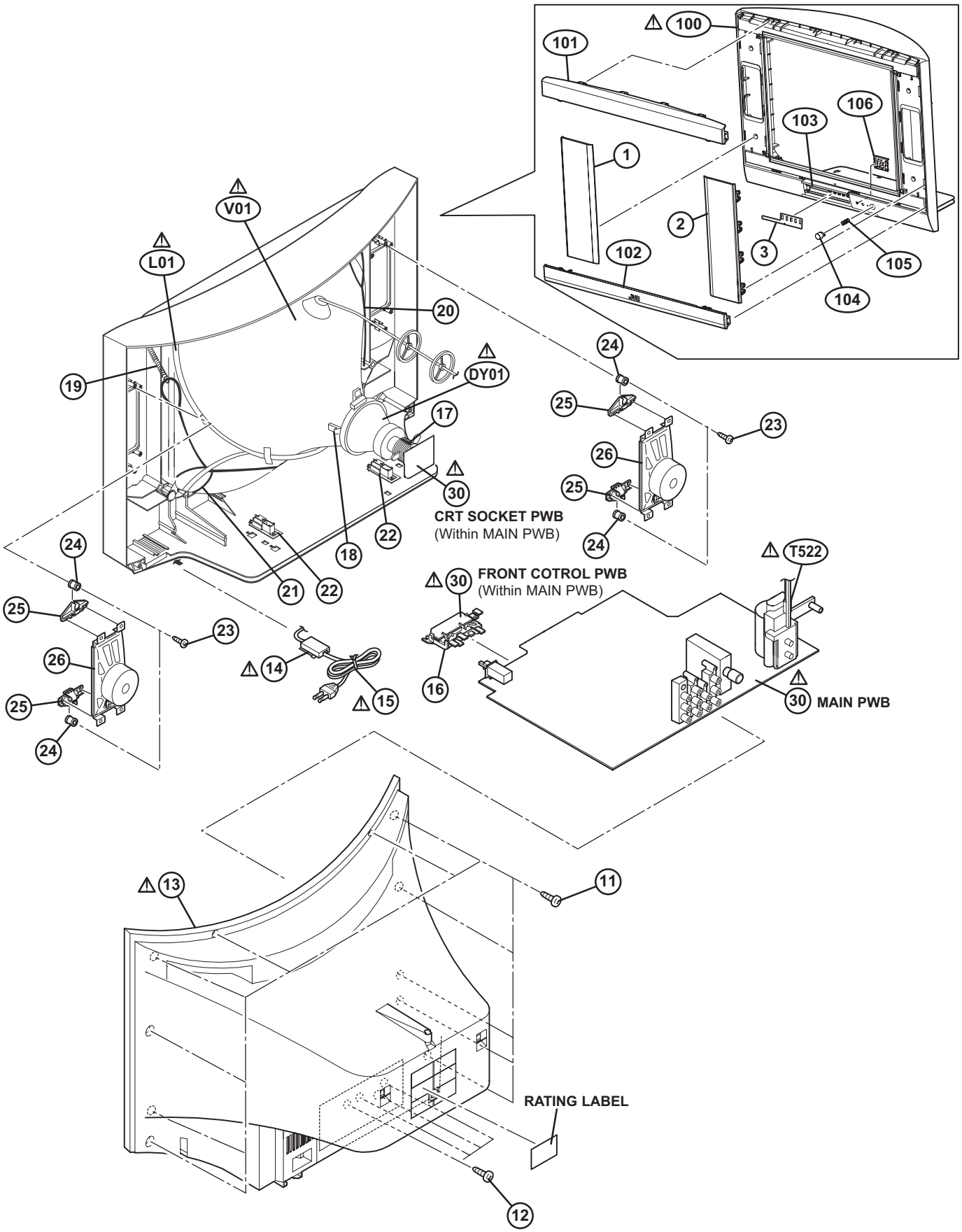
USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y	AV-25MT16/Z
MAIN P.W.B	SCW-1798A-H2
REMOTE CONTROL UNIT	RM-C1287-1H

EXPLODED VIEW PARTS LIST -1

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	A59QDC580X	PICTURE TUBE		
⚠	DY01	QQD0089-001	DEF YOKE		
⚠	L01	QQW0119-001	DEG COIL		
⚠	T522	QQH0203-001	FB TRANSF		
	1	GG10346-001B-H	SP PANEL LEFT		
	2	GG10346-002B-H	SP PANEL RIGHT		
	3	GG30120-001A-H	OPERATION SHEET		
	11	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x11)	
	12	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x4)	
⚠	13	GG10249-011B-H	REAR COVER		
⚠	14	CM47005-A01-H	POWER CORD CLAMP		
⚠	15	QMPR340-165-K2	POWER CORD	1.65m BLACK	
	16	GG30119-001B-H	SUB PCB HOLDER		
	17	QAL0608-001	PC MAGNET		
	18	QAL0627-001	DY WEDGE	(x3)	
	19	A48457-3-H	SPRING		
	20	WJY0029-001A-E	BRAIDED ASS'Y		
	21	WJY0013-003A-E	BRAIDED ASS'Y	(x2)	
	22	CM36623-003-H	CHASSIS RAIL	(x2)	
	23	GG40046-001A-H	TAP SCREW	(x4)	
	24	LC40226-005A-H	SPACER	(x4)	
	25	GG20057-002A-H	SPEAKER HOLDER	(x4)	
	26	QAS0139-001	SPEAKER	(x2) SP01,SP02	
⚠	30	SCW-1798A-H2	MAIN PWB		
⚠	100	GG10343-002B-H	FRONT CABINET ASS'Y	Inc.101-106	
	101	GG10345-001B-H	FRONT FRAME TOP		
	102	GG10345-002B-H	FRONT FRAME BOTTOM		
	103	GG20082-001B-H	DOOR		
	104	GG30114-001B-H	POWER KNOB		
	105	CM35235-003-H	SPRING		
	106	GG30115-001B-H	LED LENS		

EXPLODED VIEW -1



PRINTED WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y (SCW-1798A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC302	S9648	PHOTO CONDUCTOR		
IC351	TDA6107AJF/N1	IC		
IC401	LA78040N	IC		
IC601	AN5277	IC		
IC701	TDA12021-NTSC	IC(MCU)	(SERVICE)	
IC702	AT24C16-25MT16	IC	(SERVICE)	
IC801	RPM7238-H5	IR DETECT UNIT		
IC901	ICE1QS01	IC		
IC951	SE135N	IC		
IC972	BA33BC0T	IC		
IC973	PQ120RDA1SZ	IC		
IC975	PQ050RDA1SZ	IC		
Q101	2SC5397/CD/-T	TRANSISTOR		
Q341	2SA1530A/QR/-X	TRANSISTOR		
Q421	2SC3928A/QR/-X	TRANSISTOR		
Q422	2SC3928A/QR/-X	TRANSISTOR		
Q461	RDN050N20	POWER MOS FET		
Q521	2SC2655/Y/-T	TRANSISTOR		
⚠Q522	TT2202-YD	POW TRANSISTOR		
Q571	2SA1208/ST/Z1-T	TRANSISTOR		
Q572	UN2226-X	DIGI TRANSISTOR		
Q601	2SA1530A/QR/-X	TRANSISTOR		
Q602	2SA1530A/QR/-X	TRANSISTOR		
Q603	UN2226-X	DIGI TRANSISTOR		
Q605	UN2226-X	DIGI TRANSISTOR		
Q607	2SC3928A/QR/-X	TRANSISTOR		
Q608	2SC3928A/QR/-X	TRANSISTOR		
Q609	UN2226-X	DIGI TRANSISTOR		
Q611	UN2226-X	DIGI TRANSISTOR		
Q612	2SC3928A/QR/-X	TRANSISTOR		
Q704	2SC3928A/QR/-X	TRANSISTOR		
Q705	SSM3K02F-X	MOS FET		
Q706	SSM3K02F-X	MOS FET		
Q707	2SC3928A/QR/-X	TRANSISTOR		
Q708	2SA1530A/QR/-X	TRANSISTOR		
Q791	2SC3928A/QR/-X	TRANSISTOR		
Q801	KTA1267/YG/-T	TRANSISTOR		
Q803	UN2226-X	DIGI TRANSISTOR		
Q804	UN2226-X	DIGI TRANSISTOR		
Q805	2SA1530A/QR/-X	TRANSISTOR		
Q901	STP13NK60ZFP	POWER MOS FET		
Q955	2SC3928A/QR/-X	TRANSISTOR		
Q981	2SA562TM/Y/-T	TRANSISTOR		
Q982	2SC3928A/QR/-X	TRANSISTOR		
Q983	2SA562TM/Y/-T	TRANSISTOR		
Q984	2SC3928A/QR/-X	TRANSISTOR		
D341	MA111-X	SI DIODE		
D342	MA111-X	SI DIODE		
D343	MA111-X	SI DIODE		
D345	MA111-X	SI DIODE		
D350	MA8075/M/-X	Z DIODE		
D354	FR105GT-T3	SI DIODE		
D355	FR105GT-T3	SI DIODE		
D356	FR105GT-T3	SI DIODE		
D423	1N4003SG-T2	SI DIODE		
D424	1SR35-400A-T2	SI DIODE		
D520	MA111-X	SI DIODE		
D521	RH3G-F1	SI DIODE		
D522	RU4AM-LFM1	SI DIODE		
D523	FR105GT-T3	SI DIODE		
D530	FR105GT-T3	SI DIODE		
D551	FR105GT-T3	SI DIODE		
D552	FR105GT-T3	SI DIODE		
D554	MA8051/L/-X	Z DIODE		
D571	MA8075/H/-X	Z DIODE		
D581	FR105GT-T3	SI DIODE		
D603	MA111-X	SI DIODE		
D607	MA111-X	SI DIODE		
D610	MA111-X	SI DIODE		
D701	MA111-X	SI DIODE		
D702	MA8091/H/-X	Z DIODE		
D703	MA8091/H/-X	Z DIODE		
D704	MA8091/H/-X	Z DIODE		
D706	MA8036-X	Z DIODE		
D707	MA111-X	SI DIODE		
D708	MA111-X	SI DIODE		
D709	MA111-X	SI DIODE		
D710	MA8091/H/-X	Z DIODE		
D711	MA111-X	SI DIODE		
D712	MA111-X	SI DIODE		
D713	MA8039/H/-X	Z DIODE		
D714	MA8030/H/-X	Z DIODE		
D751	MA8091/H/-X	Z DIODE		
D753	MA8091/H/-X	Z DIODE		
D808	LH22440-T16	LED	POWER(RED)	
D810	MA8091/H/-X	Z DIODE		
D811	MA8091/H/-X	Z DIODE		
D812	MA8091/H/-X	Z DIODE		
D813	MA8091/H/-X	Z DIODE		
D814	MA8091/H/-X	Z DIODE		
D817	MA8091/H/-X	Z DIODE		
D901	GSIB460-S1	BRIDGE DIODE		
D921	FR105GT-T3	SI DIODE		
D924	1SR35-400A-T2	SI DIODE		
D925	1SR35-400A-T2	SI DIODE		
D926	MA8180/M/-X	Z DIODE		
D928	MA8180/M/-X	Z DIODE		
D950	MTZJ27B-T2	Z DIODE		
D951	RU4AM-LFM1	SI DIODE		
D952	FR105GT-T3	SI DIODE		
D953	FR105GT-T3	SI DIODE		
D954	FR105GT-T3	SI DIODE		
D955	FMX-G12S	SI DIODE		
D956	MA111-X	SI DIODE		
D957	MA111-X	SI DIODE		
D958	1SR35-400A-T2	SI DIODE		
D962	MA8330/M/-X	Z DIODE		
D970	MA8082/M/-X	Z DIODE		
D971	MA111-X	SI DIODE		
D972	MA111-X	SI DIODE		
D973	MA111-X	SI DIODE		
D975	MA111-X	SI DIODE		
D981	UDZS2.0B-X	Z DIODE		
D982	UDZS2.0B-X	Z DIODE		
⚠PC901	PS2581AL1/QW/	PHOTO COUPLER		
C001	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C004	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C005	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C006	QETN1HM-336Z	E CAPACITOR	33uF 50V M	
C101	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C103	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C104	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C106	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C110	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C111	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C317	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C341	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C351	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C352	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M	
C353	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K	
C358	QCZ0364-222	C CAPACITOR	2200pF 2kV K	
C422	QCS32HJ-180Z	C CAPACITOR	18pF 500V J	
C423	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C424	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J	
C427	QETM1VM-108	E CAPACITOR	1000uF 35V M	
C428	QEHR1VM-227Z	E CAPACITOR	220uF 35V M	
C430	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J	
C431	QFVF1HJ-184Z	MF CAPACITOR	0.18uF 50V J	
C435	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C436	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C471	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C520	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C521	QCB31HK-332Z	C CAPACITOR	3300pF 50V K	
C522	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	
C523	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
⚠C524	QFZ0196-252	MPP CAPACITOR	2500pF 1.5kV H	
C525	QFZ0196-113	MPP CAPACITOR	0.011uF 1.5kV H	
C526	QFZ0196-252	MPP CAPACITOR	2500pF 1.5kV H	
C527	QFZ0197-184	MPP CAPACITOR	0.18uF 250V J	
C528	QFP32GJ-223	PP CAPACITOR	0.022uF 400V J	
C529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M	
C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C531	QEZ0195-475Z	BP E CAPACITOR	4.7uF 50V M	
C532	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C551	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C552	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C553	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	

⚠Ref No.	Part No.	Part Name	Description Local
C554	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M
C555	QFLC2AJ-103Z	M CAPACITOR	0.01uF 100V J
C571	QETM2CM-227	E CAPACITOR	220uF 160V M
C572	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C573	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C581	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
C582	QFZ0197-224	MPP CAPACITOR	0.22uF 250V J
C601	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C602	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C603	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C604	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C605	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C606	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C607	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C608	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C609	QETN1HM-336Z	E CAPACITOR	33uF 50V M
C610	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C613	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C615	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C616	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C656	QETN1HM-107Z	E CAPACITOR	100uF 50V M
C661	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C662	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C701	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C702	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C703	QETN1AM-477Z	E CAPACITOR	470uF 10V M
C704	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C705	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J
C706	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J
C707	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C708	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C709	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C710	NCB31HK-682X	C CAPACITOR	6800pF 50V K
C711	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C712	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J
C713	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C714	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C715	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C716	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C718	QFZ0229-154Z	MF CAPACITOR	0.15uF 63V K
C719	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C720	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C723	NCB31CK-105X	C CAPACITOR	1uF 16V K
C724	NCB31CK-105X	C CAPACITOR	1uF 16V K
C725	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C726	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C727	NCB31HK-332X	C CAPACITOR	3300pF 50V K
C728	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C729	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C730	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C731	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C732	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C733	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C734	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C735	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C736	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C737	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C738	NCB31CK-105X	C CAPACITOR	1uF 16V K
C739	NCB31CK-105X	C CAPACITOR	1uF 16V K
C740	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C741	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C742	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C743	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C744	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C745	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C746	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C747	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C748	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C749	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C750	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C751	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C752	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C753	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C754	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C755	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C756	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C757	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C758	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C759	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C760	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C761	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C762	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C763	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C764	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C765	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C766	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C767	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C768	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C770	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C771	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C772	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C773	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C775	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C776	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C777	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C778	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C779	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C780	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C781	NCB31CK-105X	C CAPACITOR	1uF 16V K
C782	NCB31CK-105X	C CAPACITOR	1uF 16V K
C783	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C784	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C785	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C790	NDC31HJ-270X	C CAPACITOR	27pF 50V J
C792	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C793	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C802	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C803	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C804	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C806	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C807	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C821	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C822	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C823	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C824	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C825	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C826	NCB31HK-152X	C CAPACITOR	1500pF 50V K
⚠C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K
⚠C902	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K
⚠C903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
⚠C904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
⚠C905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C906	QEZ0649-337	E CAPACITOR	330uF 400V M
C908	QRL029J-273	OMF RESISTOR	27kΩ 2W J
⚠C910	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K
C915	QCZ0364-152	C CAPACITOR	1500pF 2kV K
C916	QCZ0122-561	C CAPACITOR	560pF 2kV K
C921	QCZ0122-391	C CAPACITOR	390pF 2kV K
C922	NDC31HJ-820X	C CAPACITOR	82pF 50V J
C923	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C924	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C925	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C927	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C930	NDC31HJ-821X	C CAPACITOR	820pF 50V J
C952	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C953	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C954	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C955	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C956	QEZ0203-227	E CAPACITOR	220uF 160V M
C958	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M
C959	QEHR1VM-107Z	E CAPACITOR	100uF 35V M
C960	QETM1VM-228	E CAPACITOR	2200uF 35V M
C962	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C963	QCZ0364-102	C CAPACITOR	1000pF 2kV K
C965	QETN1AM-228Z	E CAPACITOR	2200uF 10V M
C966	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C967	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C969	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C975	QEHR1AM-228Z	E CAPACITOR	2200uF 10V M
C977	QETN1AM-477Z	E CAPACITOR	470uF 10V M
C979	QETN1EM-107Z	E CAPACITOR	100uF 25V M
C980	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C984	QETN1HM-336Z	E CAPACITOR	33uF 50V M
⚠C991	QCZ9079-102	C CAPACITOR	1000pF AC250V M
⚠C992	QCZ9079-102	C CAPACITOR	1000pF AC250V M
⚠C993	QCZ9079-102	C CAPACITOR	1000pF AC250V M
C994	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M
C995	QETN1CM-477Z	E CAPACITOR	470uF 16V M
R001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R004	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R101	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R102	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R103	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R104	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R106	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J
R315	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R316	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R317	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R324	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

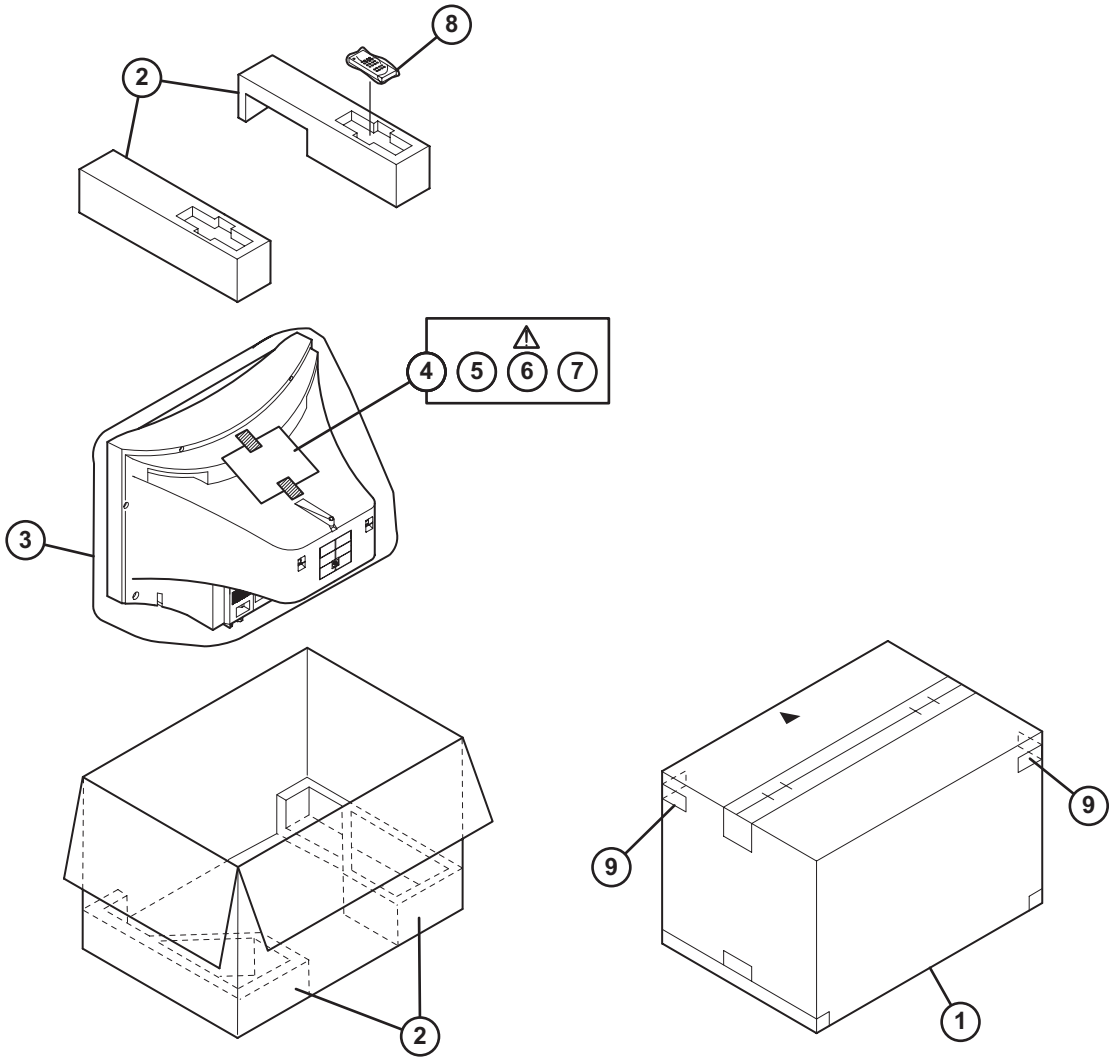
⚠Ref No.	Part No.	Part Name	Description Local
R325	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R327	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R328	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R344	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R351	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R352	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R353	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R354	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R355	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R356	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R357	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R358	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R359	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R360	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R369	QRE121J-104Y	C RESISTOR	100kΩ 1/2W J
R411	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R412	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R421	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R422	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R426	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R427	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R430	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R432	QRX01GJ-2R2	MF RESISTOR	2.2Ω 1W J
R433	QRE121J-6R8Y	C RESISTOR	6.8Ω 1/2W J
R434	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R440	QRG01GJ-221	OMF RESISTOR	220Ω 1W J
R448	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J
R460	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R461	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
R462	QRL039J-180	OMF RESISTOR	18Ω 3W J
R471	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J
R472	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R473	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R474	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R520	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R521	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R522	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R523	QRL029J-271	OMF RESISTOR	270Ω 2W J
R524	QRL039J-181	OMF RESISTOR	180Ω 3W J
R527	QRL039J-393	OMF RESISTOR	39kΩ 3W J
R528	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
⚠R530	QRZ9017-270	FUSI RESISTOR	27Ω 1/4W J
⚠R533	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
R551	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
R552	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
R554	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R569	QRZ0221-3R9	UNF RESISTOR	3.9Ω 7W K
R572	QRE121J-472Y	C RESISTOR	4.7kΩ 1/2W J
R573	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R574	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R575	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R581	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R582	QRE121J-124Y	C RESISTOR	120kΩ 1/2W J
R583	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R601	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R602	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R604	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R606	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R607	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R609	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R610	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R611	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R612	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R614	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R618	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R620	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R621	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R623	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R624	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R626	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R629	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R630	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R631	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R632	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R633	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R634	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R636	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R637	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R639	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R640	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R649	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R701	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R705	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R706	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R707	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R708	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R709	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R711	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R712	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R713	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R714	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R715	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R716	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R717	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R718	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R719	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R726	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R727	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R728	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R730	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R731	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R733	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R734	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R735	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R736	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R737	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R739	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R740	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R741	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R743	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R745	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R747	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R748	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R749	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R750	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R751	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R752	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R753	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R754	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R755	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R756	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R758	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R759	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R760	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R761	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R762	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R763	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R764	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R765	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R768	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R771	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R772	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R773	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R774	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R775	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R776	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R777	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R782	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R783	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R785	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R786	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R787	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R788	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R790	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R792	QRE121J-330Y	C RESISTOR	33Ω 1/2W J
R793	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R794	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R795	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R802	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R803	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R804	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R807	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R809	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R810	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R811	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R812	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R813	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R814	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R815	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R816	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R818	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R819	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J

⚠Ref No.	Part No.	Part Name	Description	Local
R820	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R821	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R822	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R823	QRE121J-470Y	C RESISTOR	47Ω 1/2W J	
R824	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R901	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K	
R907	QRL029J-223	OMF RESISTOR	22kΩ 2W J	
R922	QRL039J-473	OMF RESISTOR	47kΩ 3W J	
R923	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R924	QRE121J-274Y	C RESISTOR	270kΩ 1/2W J	
R925	QRE121J-334Y	C RESISTOR	330kΩ 1/2W J	
R927	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R930	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R931	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R933	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R934	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R935	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
⚠R936	QRZ9017-2R2	FUSI RESISTOR	2.2Ω 1/4W J	
R951	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J	
R952	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R961	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R962	QRL029J-223	OMF RESISTOR	22kΩ 2W J	
R963	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R964	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R965	QRT029J-1R2	MF RESISTOR	1.2Ω 2W J	
R970	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J	
R972	QRT029J-3R9	MF RESISTOR	3.9Ω 2W J	
R976	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R977	QRL039J-120	OMF RESISTOR	12Ω 3W J	
R978	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R981	QRE121J-3R9Y	C RESISTOR	3.9Ω 1/2W J	
R982	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R983	QRE121J-3R9Y	C RESISTOR	3.9Ω 1/2W J	
R984	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R985	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R986	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
⚠R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K	
L002	QQL244J-4R7Z	PEAKING COIL	4.7uH J	
L003	QQL244J-4R7Z	PEAKING COIL	4.7uH J	
L101	QQL244K-1R0Z	PEAKING COIL	1uH K	
L351	QQL244J-5R6Z	COIL	5.6uH J	
L521	QQLZ036-821	COIL	820uH K	
L522	QQR1137-005	LINEARITY COIL		
L530	QQL244J-100Z	COIL	10uH J	
L551	QQLZ026-300	COIL	30uH ±7%	
L701	NQR0199-004X	FERRITE BEADS		
L702	NQR0199-004X	FERRITE BEADS		
L703	NQR0199-004X	FERRITE BEADS		
L704	NQR0199-004X	FERRITE BEADS		
L705	NQR0199-004X	FERRITE BEADS		
L706	NQR0199-004X	FERRITE BEADS		
L707	NQR0199-004X	FERRITE BEADS		
L708	NQR0199-004X	FERRITE BEADS		
L709	NQR0199-004X	FERRITE BEADS		
L710	NQR0199-004X	FERRITE BEADS		
L711	NQR0199-004X	FERRITE BEADS		
L712	NQR0199-004X	FERRITE BEADS		
L713	NQR0199-004X	FERRITE BEADS		
L714	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L715	NQR0199-004X	FERRITE BEADS		
L716	NQR0199-004X	FERRITE BEADS		
L717	NQR0199-004X	FERRITE BEADS		
L718	NQR0199-004X	FERRITE BEADS		
L951	QQLZ026-460	COIL	46uH ±7%	
⚠T521	QQR1229-001	DRIVE TRANSF		
⚠T921	QQS0345-001	SW TRANSF		
CF101	QAX0349-001	C TRAP	47.25MHz	
⚠CP650	ICP-N25-T	IC PROTECTOR	1.0A	
⚠CP952	ICP-N38-T	IC PROTECTOR	1.5A	
⚠CP953	ICP-N38-T	IC PROTECTOR	1.5A	
⚠CP954	ICP-N38-T	IC PROTECTOR	1.5A	
⚠CP955	ICP-N75-T	IC PROTECTOR	2.7A	
⚠F901	QMF51E2-4R0-S	FUSE	4A AC250V	
J801	QNZ0454-002	PIN JACK	VIDEO1 IN	
J802	QNN0349-002	PIN JACK	VIDEO2/COMP IN	
J803	QNN0348-001	PIN JACK	VIDEO2 L/R IN	
J804	QNN0349-001	PIN JACK	VIDEO OUT	
J806	QNN0281-003	PIN JACK	VIDEO3 V IN	
J807	QNN0281-002	PIN JACK	VIDEO3 L IN	
J808	QNN0282-001	PIN JACK	VIDEO3 R IN	
J809	QNS0155-001	3.5 JACK	HEADPHONE	
K101	QQR1114-001Z	FERRITE BEADS		
K104	QQR1114-001Z	FERRITE BEADS		
K356	QQR0601-001Z	COIL		
K901	QQR1114-001Z	FERRITE BEADS		
K951	QQR1114-001Z	FERRITE BEADS		
K952	QQR1113-001Z	FERRITE BEADS		
K953	QQR1113-001Z	FERRITE BEADS		
K954	QQR1113-001Z	FERRITE BEADS		
K955	QQR1113-001Z	FERRITE BEADS		
LC801	QQR1199-002	EMI FILTER		
LC802	QQR1199-002	EMI FILTER		
LC803	QQR1199-002	EMI FILTER		
LC804	QQR1199-002	EMI FILTER		
LC805	QQR1199-002	EMI FILTER		
⚠LF901	QQR0673-004	LINE FILTER		
⚠LF902	QQR1635-001	LINE FILTER		
⚠RY901	QSK0061-002	RELAY		
S801	QSW0619-003Z	PUSH SWITCH		MENU
S802	QSW0619-003Z	PUSH SWITCH		CH-
S803	QSW0619-003Z	PUSH SWITCH		CH+
S804	QSW0619-003Z	PUSH SWITCH		VOL-
S805	QSW0619-003Z	PUSH SWITCH		VOL+
⚠S901	QSW0750-001	PUSH SWITCH		POWER
SF102	QAX0723-001	SAW FILTER		
⚠SK351	QNZ0536-002	CRT SOCKET		
⚠TH901	QAD0134-4R5	P THERMISTOR	4.5Ω	
TU001	QAU0353-002	TUNER		
⚠VA901	QAF0060-621	VARISTOR	620V	
X701	QAX0799-001Z	X TAL	24.576MHz	
	GG30118-001A-H	LED HOLDER		
	GG30138-001A-H	EE HOLDER		

REMOTE CONTROL UNIT PARTS LIST (RM-C1287-1H)

⚠	Ref No.	Part No.	Part Name	Description	Local
		R25-8566	BATTERY COVER		

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	GG10285-003B-H	PACKING CASE		
	2	GG10347-001C-H	CUSHION ASS'Y	4pcs in 1set	
	3	GG30097-004A-H	POLY BAG		
	4	GG30096-001A-H	POLY BAG		
	5	----------	BATTERY	AA/R6 1.5V(x2)	
⚠	6	GGT0114-001A-H	INST BOOK	English,Spanish	
	7	QAM0028-001	MATCHING BOX		
	8	RM-C1287-1H	REMOCON UNIT		
	9	GG30147-001B-H	CORNER LABEL	2pcs in 1set	

[AV-29MT16/Z, AV-29MT36/Z]

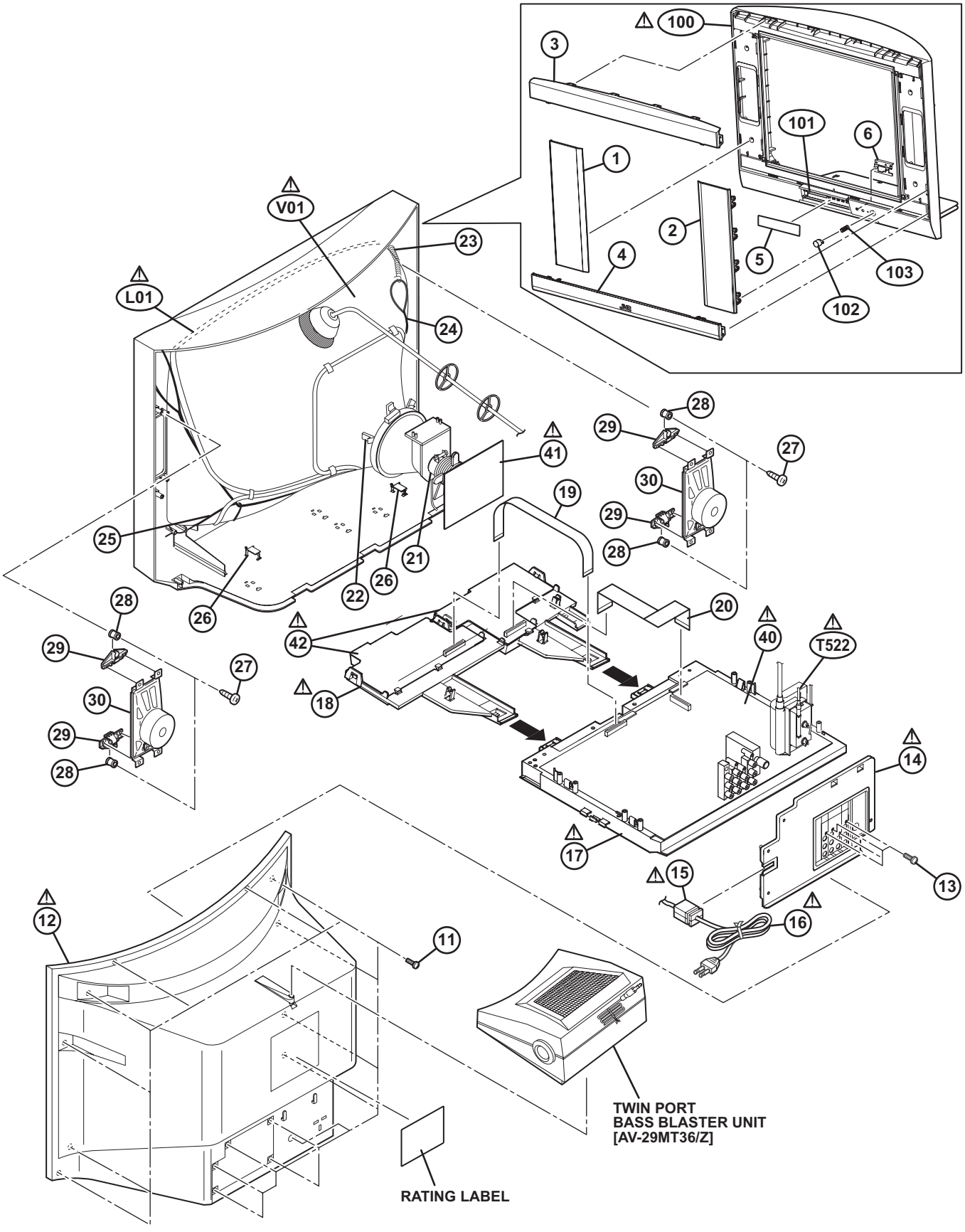
USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y	AV-29MT16/Z	AV-29MT36/Z
MAIN P.W.B	SCW-1812A-H2	SCW-1813A-H2
CRT SOCKET P.W.B	SCW-3021A-H2	←
FRONT CONTROL P.W.B	SCW-8011A-H2	←
REMOTE CONTROL UNIT	RM-C1287-1H	←

EXPLODED VIEW PARTS LIST -1

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	A68QCU870X52S	PICTURE TUBE	Inc.DEF YOKE	
⚠	L01	QQW0200-001	DEG COIL		
⚠	T522	QQH0202-001	FB TRANSF		
	1	GG10356-001B-H	SP PANEL LEFT		
	2	GG10356-002B-H	SP PANEL RIGHT		
	3	GG10355-001A-H	FRONT FRAME TOP		
	4	GG10355-002B-H	FRONT FRAME BOTTOM		
	5	GG20087-001A-H	OPERATION SHEET		
	6	GG30139-001B-H	LED LENS		
	11	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x16)	
⚠	12	GG10192-009A-H	REAR COVER		AV-29MT16Z
⚠	12	GG10192-012A-H	REAR COVER		AV-29MT36Z
	13	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x4)	
⚠	14	LC11064-008A-H	AV BOARD		AV-29MT16Z
⚠	14	LC11064-007A-H	AV BOARD		AV-29MT36Z
⚠	15	CM23167-A01-H	POWER CORD CLAMP		
⚠	16	QMPR340-165-K2	POWER CORD	1.65m BLACK	
⚠	17	LC11061-002C-H	CHASSIS BASE		
⚠	18	GG10357-001B-H	CONTROL BASE		
	19	QUQ212-0920CL-E	FFC WIRE	9pin 20cm	
	20	WJS0068-001A-E	E-FL/RB WIRE		
	21	QAL0610-001	PC MAGNET		
	22	QAL0627-001	DY WEDGE	(x4)	
	23	A48457-3-H	SPRING		
	24	WJY0018-001A-E	BRAIDED ASS'Y		
	25	WJY0013-003A-E	BRAIDED ASS'Y	(x2)	
	26	LC30103-003A-H	CHASSIS ADAPTER	(x2)	
	27	GG40046-001A-H	TAP SCREW	(x4)	
	28	LC40226-005A-H	SPACER	(x4)	
	29	GG20057-002A-H	SPEAKER HOLDER	(x4)	
	30	QAS0139-001	SPEAKER	(x2) SP01,SP02	
⚠	40	SCW-1812A-H2	MAIN PWB		AV-29MT16Z
⚠	40	SCW-1813A-H2	MAIN PWB		AV-29MT36Z
⚠	41	SCW-3021A-H2	CRT SOCKET PWB		
⚠	42	SCW-8011A-H2	FRONT CONTROL PWB		
⚠	100	GG10353-001B-H	FRONT CABINET ASS'Y	Inc.101-103	
	101	GG20099-001B-H	DOOR		
	102	GG30131-001A-H	POWER KNOB		
	103	CM35235-003-H	SPRING		

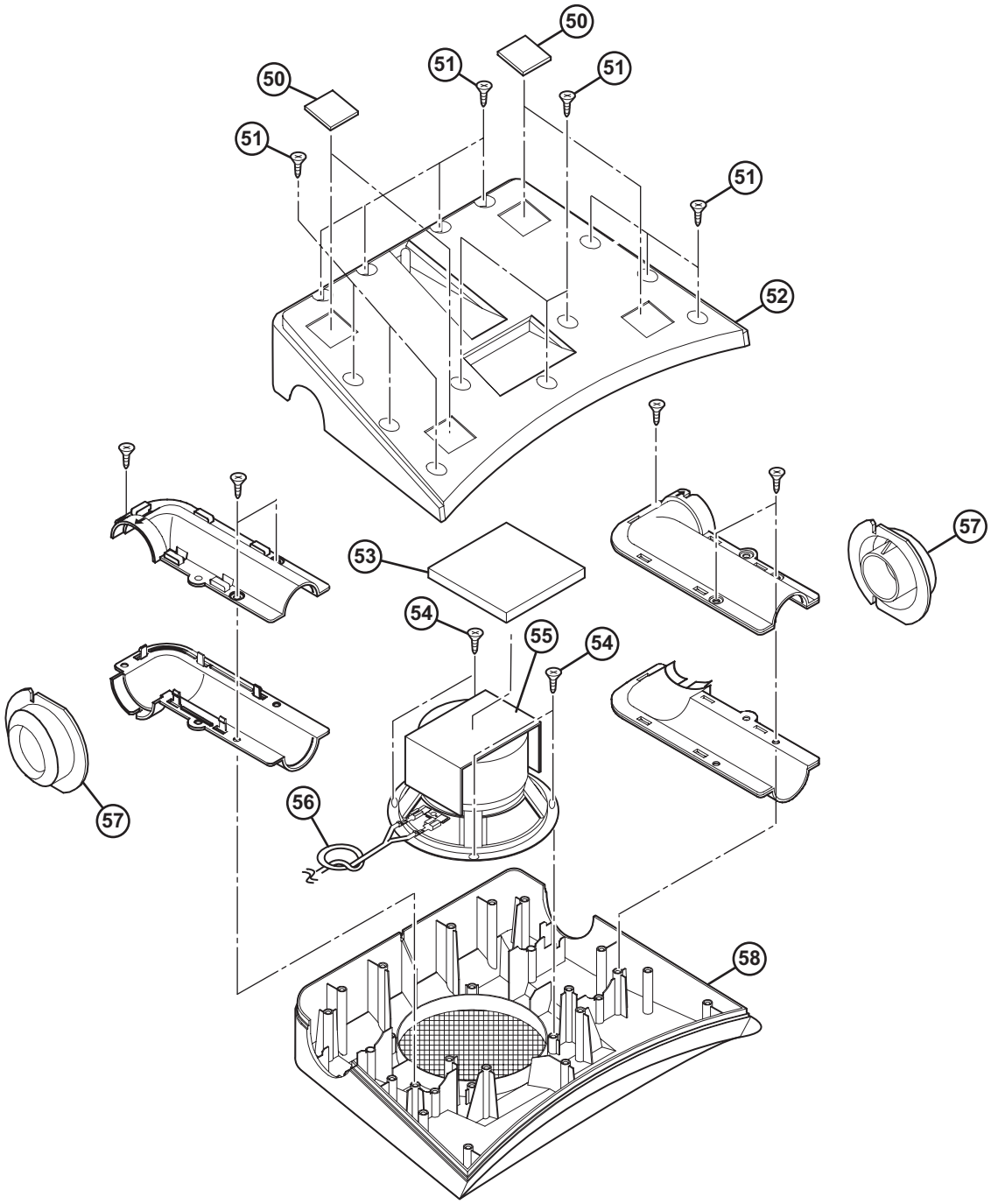
EXPLODED VIEW -1



EXPLODED VIEW PARTS LIST -2 [AV-29MT36/Z]

⚠	Ref.No.	Part No.	Part Name	Description	Local
	50	LC40352-001A-H	RUBBER SHEET	(x4)	
	51	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x13)	
	52	GG10141-001C-H	BASS BOTTOM		
	53	LC41211-001A	SOUND ABSORBER		
	54	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x4)	
	55	QAS0118-001	SPEAKER	SP03	
	56	WJJ0266-002A-E	E-SIC WIRE C-C		
	57	GG30022-001A-H	BASS DUCT R	(x2)	
	58	GG10140-001C-H	BASS TOP		

EXPLODED VIEW -2 [AV-29MT36/Z]



PRINTED WIRING BOARD PARTS LIST [AV-29MT16/Z]

MAIN P.W. BOARD ASS'Y (SCW-1812A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC401	LA78041	IC		
IC601	AN5277	IC		
IC701	TDA12021-NTSC	IC(MCU)	(SERVICE)	
IC702	AT24C16-29MT16	IC	(SERVICE)	
IC901	ICE1QS01	IC		
IC951	SE135N	IC		
IC972	BA33BC0T	IC		
IC973	PQ120RDA1SZ	IC		
IC975	PQ050RDA1SZ	IC		
Q101	2SC5397/CD/-T	TRANSISTOR		
Q341	2SA1530A/QR/-X	TRANSISTOR		
Q421	2SC3928A/QR/-X	TRANSISTOR		
Q422	2SC3928A/QR/-X	TRANSISTOR		
Q461	RDN050N20	POWER MOS FET		
Q521	BSN304-T	TRANSISTOR		
⚠Q522	TT2202-YD	POW TRANSISTOR		
Q571	2SA1208/ST/Z1-T	TRANSISTOR		
Q572	UN2212-X	DIGI TRANSISTOR		
Q601	2SA1530A/QR/-X	TRANSISTOR		
Q602	2SA1530A/QR/-X	TRANSISTOR		
Q603	UN2226-X	DIGI TRANSISTOR		
Q605	UN2226-X	DIGI TRANSISTOR		
Q607	2SC3928A/QR/-X	TRANSISTOR		
Q608	2SC3928A/QR/-X	TRANSISTOR		
Q609	UN2226-X	DIGI TRANSISTOR		
Q611	UN2226-X	DIGI TRANSISTOR		
Q612	2SC3928A/QR/-X	TRANSISTOR		
Q702	2SC3928A/QR/-X	TRANSISTOR		
Q704	2SC3928A/QR/-X	TRANSISTOR		
Q705	SSM3K02F-X	MOS FET		
Q706	SSM3K02F-X	MOS FET		
Q707	2SC3928A/QR/-X	TRANSISTOR		
Q708	2SA1530A/QR/-X	TRANSISTOR		
Q791	2SC3928A/QR/-X	TRANSISTOR		
Q801	KTA1267/YG/-T	TRANSISTOR		
Q803	UN2226-X	DIGI TRANSISTOR		
Q804	UN2226-X	DIGI TRANSISTOR		
Q805	2SA1530A/QR/-X	TRANSISTOR		
Q901	STP13NK60ZFP	POWER MOS FET		
Q951	2SC3928A/QR/-X	TRANSISTOR		
Q952	2SC3928A/QR/-X	TRANSISTOR		
Q957	2SC3928A/QR/-X	TRANSISTOR		
Q958	2SA1013/RO/-T	TRANSISTOR		
Q981	2SA562TM/Y/-T	TRANSISTOR		
Q982	2SC3928A/QR/-X	TRANSISTOR		
Q983	2SA562TM/Y/-T	TRANSISTOR		
Q984	2SC3928A/QR/-X	TRANSISTOR		
D341	MA111-X	SI DIODE		
D342	MA111-X	SI DIODE		
D343	MA111-X	SI DIODE		
D345	MA111-X	SI DIODE		
D423	1N4003SG-T2	SI DIODE		
D424	1SR35-400A-T2	SI DIODE		
D521	RH3G-F1	SI DIODE		
D522	RU4AM-LFM1	SI DIODE		
D523	FR105GT-T3	SI DIODE		
D524	MA8091/H/-X	Z DIODE		
D530	FR105GT-T3	SI DIODE		
D551	FR105GT-T3	SI DIODE		
D552	FR105GT-T3	SI DIODE		
D554	MA8051/L/-X	Z DIODE		
D571	MA8075/H/-X	Z DIODE		
D581	FR105GT-T3	SI DIODE		
D601	MA111-X	SI DIODE		
D603	MA111-X	SI DIODE		
D607	MA111-X	SI DIODE		
D701	MA111-X	SI DIODE		
D702	MA8091/H/-X	Z DIODE		
D703	MA8091/H/-X	Z DIODE		
D704	MA8091/H/-X	Z DIODE		
D706	MA8036-X	Z DIODE		
D707	MA111-X	SI DIODE		
D708	MA111-X	SI DIODE		
D709	MA111-X	SI DIODE		
D710	MA8091/H/-X	Z DIODE		
D711	MA111-X	SI DIODE		
D712	MA111-X	SI DIODE		
D713	MA8039/H/-X	Z DIODE		
D714	MA8030/H/-X	Z DIODE		
D751	MA8091/H/-X	Z DIODE		
D753	MA8091/H/-X	Z DIODE		
D791	MA8062/M/-X	Z DIODE		
D810	MA8091/H/-X	Z DIODE		
D811	MA8091/H/-X	Z DIODE		
D812	MA8091/H/-X	Z DIODE		
D813	MA8091/H/-X	Z DIODE		
D814	MA8091/H/-X	Z DIODE		
D815	MA8091/H/-X	Z DIODE		
D901	GSIB460-S1	BRIDGE DIODE		
D920	MA8180/M/-X	Z DIODE		
D921	FR105GT-T3	SI DIODE		
D924	1SR35-400A-T2	SI DIODE		
D925	1SR35-400A-T2	SI DIODE		
D928	MTZJ18C-T2	Z DIODE		
D950	MTZJ36A-T2	Z DIODE		
D951	RU4AM-LFM1	SI DIODE		
D952	FR105GT-T3	SI DIODE		
D953	FR105GT-T3	SI DIODE		
D954	FR105GT-T3	SI DIODE		
D955	FMX-G12S	SI DIODE		
D957	MA8075/M/-X	Z DIODE		
D958	1SR35-400A-T2	SI DIODE		
D959	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
D960	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
D962	MA8330/M/-X	Z DIODE		
D970	MA8082/M/-X	Z DIODE		
D971	MA111-X	SI DIODE		
D972	1SR124-400A-T2	SI DIODE		
D973	MA111-X	SI DIODE		
D975	MA111-X	SI DIODE		
D977	MA111-X	SI DIODE		
D981	UDZS2.0B-X	Z DIODE		
D982	UDZS2.0B-X	Z DIODE		
⚠PC901	PS2581AL1/QW/	PHOTO COUPLER		
C001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C004	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C005	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C006	QETN1HM-336Z	E CAPACITOR	33uF 50V M	
C101	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C103	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C104	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C106	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C110	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C111	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C341	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C422	QCS32HJ-560Z	C CAPACITOR	56pF 500V J	
C423	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C424	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J	
C427	QETN1VM-108Z	E CAPACITOR	1000uF 35V M	
C428	QEHR1VM-107Z	E CAPACITOR	100uF 35V M	
C430	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J	
C431	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C435	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C436	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C471	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C520	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C521	QCB31HK-332Z	C CAPACITOR	3300pF 50V K	
C522	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	
C523	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
⚠C524	QFZ0196-252	MPP CAPACITOR	2500pF 1.5kV H	
C525	QFZ0196-123	MPP CAPACITOR	0.012uF 1.5kV H	
C526	QFZ0196-252	MPP CAPACITOR	2500pF 1.5kV H	
C527	QFZ0197-204	MPP CAPACITOR	0.2uF 250V J	
C528	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J	
C529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M	
C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C531	QEZ0195-475Z	BP E CAPACITOR	4.7uF 50V M	
C532	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C551	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C552	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C553	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	
C554	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	
C555	QFLC2AJ-103Z	M CAPACITOR	0.01uF 100V J	
C571	QETM2CM-227	E CAPACITOR	220uF 160V M	
C572	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C573	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C581	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C582	QFZ0197-204	MPP CAPACITOR	0.2uF 250V J	

⚠Ref No.	Part No.	Part Name	Description Local
C601	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C602	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C603	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C604	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C605	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C606	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C607	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C608	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C609	QETN1HM-336Z	E CAPACITOR	33uF 50V M
C610	QETN1HM-336Z	E CAPACITOR	33uF 50V M
C613	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C656	QETN1HM-107Z	E CAPACITOR	100uF 50V M
C661	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C662	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C701	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C702	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C703	QETN1AM-477Z	E CAPACITOR	470uF 10V M
C704	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C705	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J
C706	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J
C707	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C708	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C709	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C710	NCB31HK-682X	C CAPACITOR	6800pF 50V K
C711	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C712	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J
C713	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C714	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C715	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C716	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C718	QFZ0229-154Z	MF CAPACITOR	0.15uF 63V K
C719	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C720	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C723	NCB31CK-105X	C CAPACITOR	1uF 16V K
C724	NCB31CK-105X	C CAPACITOR	1uF 16V K
C725	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C726	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C727	NCB31HK-332X	C CAPACITOR	3300pF 50V K
C728	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C729	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C730	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C731	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C732	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C733	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C734	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C735	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C736	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C737	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C738	NCB31CK-105X	C CAPACITOR	1uF 16V K
C739	NCB31CK-105X	C CAPACITOR	1uF 16V K
C740	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C741	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C742	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C743	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C744	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C745	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C746	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C747	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C748	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C749	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C750	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C751	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C752	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C753	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C754	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C755	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C756	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C757	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C758	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C759	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C760	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C761	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C762	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C763	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C764	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C765	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C766	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C767	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C768	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C769	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C770	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C772	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C775	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C776	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C777	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C778	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C779	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C780	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C781	NCB31CK-105X	C CAPACITOR	1uF 16V K
C782	NCB31CK-105X	C CAPACITOR	1uF 16V K
C783	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C785	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C790	NDC31HJ-270X	C CAPACITOR	27pF 50V J
C792	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C793	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C802	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C803	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C804	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C821	NCB21HK-152X	C CAPACITOR	1500pF 50V K
C822	NCB21HK-152X	C CAPACITOR	1500pF 50V K
C823	NCB21HK-152X	C CAPACITOR	1500pF 50V K
C824	NCB21HK-152X	C CAPACITOR	1500pF 50V K
⚠C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K
⚠C903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
⚠C904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
⚠C905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C906	QEZ0649-337	E CAPACITOR	330uF 400V M
C915	QCZ0364-152	C CAPACITOR	1500pF 2kV K
C916	QCZ0122-391	C CAPACITOR	390pF 2kV K
C921	QCZ0122-471	C CAPACITOR	470pF 2kV K
C923	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C924	QFLC1HJ-682Z	M CAPACITOR	6800pF 50V J
C925	QCS31HJ-330Z	C CAPACITOR	33pF 50V J
C927	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C929	NDC31HJ-820X	C CAPACITOR	82pF 50V J
C930	NDC31HJ-821X	C CAPACITOR	820pF 50V J
C940	QCZ0121-102	C CAPACITOR	1000pF 3KV Z
C945	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C952	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C953	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C954	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C955	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C956	QEZ0203-227	E CAPACITOR	220uF 160V M
C957	QETN1AM-228Z	E CAPACITOR	2200uF 10V M
C958	QETN1EM-337Z	E CAPACITOR	330uF 25V M
C959	QETN1VM-337Z	E CAPACITOR	330uF 35V M
C960	QETM1VM-228	E CAPACITOR	2200uF 35V M
C962	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C963	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C964	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C967	QETN1AM-477Z	E CAPACITOR	470uF 10V M
C968	QETN1AM-108Z	E CAPACITOR	1000uF 10V M
C975	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C977	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C979	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C980	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C982	QETN1AM-227Z	E CAPACITOR	220uF 10V M
C984	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C987	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C989	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
⚠C991	QCZ9079-471	C CAPACITOR	470pF AC250V K
⚠C992	QCZ9079-471	C CAPACITOR	470pF AC250V K
⚠C993	QCZ9079-681	C CAPACITOR	680pF AC250V K
R001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R004	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R101	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R102	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R103	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R104	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R106	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J
R315	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R316	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R317	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R341	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R343	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R344	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R345	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R411	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R412	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R421	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R422	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R426	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R427	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R430	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R432	QRX01GJ-1R2	MF RESISTOR	1.2Ω 1W J
R433	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J
R434	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R438	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R440	QRG01GJ-331	OMF RESISTOR	330Ω 1W J

⚠Ref No.	Part No.	Part Name	Description	Local
R448	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J	
R460	QRE121J-331Y	C RESISTOR	330Ω 1/2W J	
R461	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J	
R464	QRL039J-330	OMF RESISTOR	33Ω 3W J	
R471	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	
R472	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R473	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R474	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R520	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R521	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R522	QRE121J-220Y	C RESISTOR	22Ω 1/2W J	
R523	QRL029J-271	OMF RESISTOR	270Ω 2W J	
R524	QRL039J-221	OMF RESISTOR	220Ω 3W J	
R525	QRL039J-221	OMF RESISTOR	220Ω 3W J	
R527	QRL039J-393	OMF RESISTOR	39kΩ 3W J	
R528	QRE121J-471Y	C RESISTOR	470Ω 1/2W J	
⚠R530	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J	
⚠R533	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J	
⚠R551	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J	
⚠R552	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J	
R554	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R571	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K	
R572	QRA14CF-1202Y	CMF RESISTOR	12kΩ 1/4W F	
R573	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R574	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J	
R575	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R581	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J	
R582	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J	
R583	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J	
R601	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R602	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R603	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R604	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R606	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J	
R607	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J	
R609	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R610	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R611	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R612	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R614	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R618	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R620	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R621	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R623	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R624	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R626	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R628	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R629	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R631	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R632	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R701	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R705	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R706	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R707	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R708	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R709	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R711	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R712	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R713	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R714	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R715	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R716	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R718	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R719	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R722	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R723	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R724	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R725	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R726	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R727	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R728	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R729	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R730	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R731	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R733	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R734	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R735	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R736	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R737	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R739	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R740	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R741	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R743	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R745	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R746	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R747	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R748	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R749	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R750	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R751	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R752	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R753	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R754	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R755	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R756	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R758	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R759	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R760	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R761	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R762	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R763	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R764	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R765	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R768	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R771	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R772	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R773	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R774	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R775	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R776	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R777	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R780	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R781	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R782	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R783	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R784	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R785	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R787	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R788	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R790	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R791	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J	
R792	QRE121J-330Y	C RESISTOR	33Ω 1/2W J	
R793	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R794	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R795	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R796	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R802	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R803	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R804	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R807	QRE121J-101Y	C RESISTOR	100Ω 1/2W J	
R809	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R810	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R811	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R812	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R813	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R814	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R815	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R816	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R901	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K	
R907	QRL039J-473	OMF RESISTOR	47kΩ 3W J	
R922	QRL039J-273	OMF RESISTOR	27kΩ 3W J	
R924	QRE121J-334Y	C RESISTOR	330kΩ 1/2W J	
R925	QRE121J-394Y	C RESISTOR	390kΩ 1/2W J	
R927	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R930	QRE141J-183Y	C RESISTOR	18kΩ 1/4W J	
R931	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
R932	QRE121J-100Y	C RESISTOR	10Ω 1/2W J	
R933	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R934	QRE141J-334Y	C RESISTOR	330kΩ 1/4W J	
R935	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
⚠R936	QRZ9017-2R2	FUSI RESISTOR	2.2Ω 1/4W J	
R937	QRE121J-820Y	C RESISTOR	82Ω 1/2W J	
R951	QRE121J-153Y	C RESISTOR	15kΩ 1/2W J	
R952	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J	
R954	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J	
R955	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R956	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R957	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R958	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R959	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R960	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J	

⚠Ref No.	Part No.	Part Name	Description Local
R962	QRL029J-223	OMF RESISTOR	22kΩ 2W J
R970	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R973	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R975	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R976	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R980	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R981	QRE121J-3R9Y	C RESISTOR	3.9Ω 1/2W J
R982	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R983	QRE121J-3R9Y	C RESISTOR	3.9Ω 1/2W J
R984	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R985	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R986	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R990	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
⚠R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K
L001	QQL244K-8R2Z	PEAKING COIL	8.2uH K
L002	QQL244J-4R7Z	PEAKING COIL	4.7uH J
L003	QQL244J-4R7Z	PEAKING COIL	4.7uH J
L101	QQL244K-1R0Z	PEAKING COIL	1uH K
L421	QQL26AK-220Z	CHOKE COIL	22uH K
L521	QQLZ036-821	COIL	820uH K
L522	QQR1243-001	LINEARITY COIL	
L530	QQL244K-220Z	PEAKING COIL	22uH K
L701	NQL812K-100X	P COIL	10uH K
L702	NQL812K-100X	P COIL	10uH K
L703	NQL812K-100X	P COIL	10uH K
L704	NQL812K-100X	P COIL	10uH K
L705	NQL812K-100X	P COIL	10uH K
L706	NQL812K-100X	P COIL	10uH K
L707	NQL812K-100X	P COIL	10uH K
L708	NQL812K-100X	P COIL	10uH K
L709	NQL812K-100X	P COIL	10uH K
L710	NQL812K-100X	P COIL	10uH K
L711	NQL812K-100X	P COIL	10uH K
L712	NQL812K-100X	P COIL	10uH K
L713	NQL812K-100X	P COIL	10uH K
L714	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
L715	NQL812K-100X	P COIL	10uH K
L716	NQL812K-100X	P COIL	10uH K
L717	NQL812K-100X	P COIL	10uH K
L718	NQL812K-100X	P COIL	10uH K
L951	QQLZ026-480	COIL	48uH ±7%
⚠T521	QQR1229-001	DRIVE TRANSF	
⚠T921	QQS0356-001	SW TRANSF	
CF101	QAX0349-001	C TRAP	47.25MHz
⚠CP650	ICP-N38-T	IC PROTECTOR	1.5A
⚠CP952	ICP-N38-T	IC PROTECTOR	1.5A
⚠CP953	ICP-N38-T	IC PROTECTOR	1.5A
⚠CP954	ICP-N38-T	IC PROTECTOR	1.5A
⚠CP955	ICP-N75-T	IC PROTECTOR	2.7A
J801	QNZ0454-002	PIN JACK	VIDEO1 IN
J802	QNN0349-002	PIN JACK	VIDEO2/COMP IN
J803	QNN0348-001	PIN JACK	VIDEO2 L/R IN
J804	QNN0349-001	PIN JACK	VIDEO OUT
K107	QQR1114-001Z	FERRITE BEADS	
K601	QQR1114-001Z	FERRITE BEADS	
K903	QQR1114-001Z	FERRITE BEADS	
K951	QQR1114-001Z	FERRITE BEADS	
K952	QQR1114-001Z	FERRITE BEADS	
K953	QQR1113-001Z	FERRITE BEADS	
K954	QQR1113-001Z	FERRITE BEADS	
K955	QQR1113-001Z	FERRITE BEADS	
LC801	QQR1199-002	EMI FILTER	
LC802	QQR1199-002	EMI FILTER	
LC803	QQR1199-002	EMI FILTER	
LC804	QQR1199-002	EMI FILTER	
⚠LF902	QQR1356-001	LINE FILTER	
SF102	QAX0723-001	SAW FILTER	
TU001	QAU0353-002	TUNER	
X701	QAX0799-001Z	X TAL	24.576MHz

CRT SOCKET P.W. BOARD ASS'Y (SCW-3021A-H2)

⚠Ref No.	Part No.	Part Name	Description Local
IC351	TDA6107AJF/N1	IC	
Q203	KTC3199/YG/-T	TRANSISTOR	
Q204	KTC3199/YG/-T	TRANSISTOR	
Q206	KTA1267/YG/-T	TRANSISTOR	
Q208	2SA2140/QP/	POW TRANSISTOR	
Q209	2SC5993/QP/	POW TRANSISTOR	
Q371	2SC3928A/QR/-X	TRANSISTOR	
Q372	2SC3928A/QR/-X	TRANSISTOR	
Q373	2SC3928A/QR/-X	TRANSISTOR	
Q374	2SA1530A/QR/-X	TRANSISTOR	
D201	MA111-X	SI DIODE	
D202	MA111-X	SI DIODE	
D203	RGP10J-5025-T3	SI DIODE	
D204	RGP10J-5025-T3	SI DIODE	
D350	MA8075/M/-X	Z DIODE	
D354	EU01N-T2	SI DIODE	
D355	EU01N-T2	SI DIODE	
D356	EU01N-T2	SI DIODE	
D357	EU01N-T2	SI DIODE	
D371	MA111-X	SI DIODE	
D372	MA111-X	SI DIODE	
C201	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C203	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C204	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C205	NCB31HK-561X	C CAPACITOR	560pF 50V K
C206	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M
C207	QCS31HJ-5R0Z	C CAPACITOR	5pF 50V J
C209	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C211	NDC31HJ-821X	C CAPACITOR	820pF 50V J
C212	QCB32HK-472Z	C CAPACITOR	4700pF 500V K
C213	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C214	QETN2CM-106Z	E CAPACITOR	10uF 160V M
C215	QCB32HK-472Z	C CAPACITOR	4700pF 500V K
C216	QETN2CM-106Z	E CAPACITOR	10uF 160V M
C217	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C218	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C219	QETN1AM-337Z	E CAPACITOR	330uF 10V M
C220	QCS32HJ-680Z	C CAPACITOR	68pF 500V J
C351	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C352	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M
C353	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C358	QFZ0097-103	MM CAPACITOR	0.01uF 1250V K
C371	QETN1CM-227Z	E CAPACITOR	220uF 16V M
R207	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R208	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R209	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R210	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R211	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R212	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R213	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R214	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J
R219	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R220	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R221	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R222	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J
R223	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J
R224	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R225	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R226	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J
R227	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J
R228	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R229	QRE121J-121Y	C RESISTOR	120Ω 1/2W J
R232	QRL029J-391	OMF RESISTOR	390Ω 2W J
R351	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R352	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R353	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R354	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R355	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R356	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R357	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R358	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R359	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R360	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
⚠R369	QRZ9023-1R0	FUSI RESISTOR	1Ω 2W J
R371	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R372	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R373	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R374	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K
R376	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R377	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
L351	QQL244J-5R6Z	COIL	5.6uH J
⚠FR201	QRZ9021-561	FUSI RESISTOR	560Ω 1W J
K201	QQR1114-001Z	FERRITE BEADS	
K202	QQR1114-001Z	FERRITE BEADS	
K203	QQR1114-001Z	FERRITE BEADS	
K205	QQR1114-001Z	FERRITE BEADS	
K206	QQR1114-001Z	FERRITE BEADS	
K208	QQR1113-001Z	FERRITE BEADS	
⚠SK351	QNZ0536-002	CRT SOCKET	

FRONT CONTROL P.W. BOARD ASS'Y (SCW-8011A-H2)

⚠Ref No.	Part No.	Part Name	Description Local
IC301	S9648	PHOTO CONDUCTOR	
IC481	LA6515	IC	
IC801	RPM7238-H5	IR DETECT UNIT	
Q481	2SC3928A/QR/-X	TRANSISTOR	
Q482	2SA1530A/QR/-X	TRANSISTOR	
Q955	2SC3928A/QR/-X	TRANSISTOR	
D801	LH22440-T16	LED	POWER(RED)
D803	MA8091/H/-X	Z DIODE	
D804	NCB21HK-152X	C CAPACITOR	1500pF 50V K
D805	NCB21HK-152X	C CAPACITOR	1500pF 50V K
D956	MA111-X	SI DIODE	
D957	MA111-X	SI DIODE	
C301	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C481	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C482	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C483	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C484	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C485	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C487	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J
C488	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C489	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C490	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C601	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C602	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C801	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C802	QETN1CM-107Z	E CAPACITOR	100uF 16V M
⚠C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K
⚠C902	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K
C965	QETN1CM-107Z	E CAPACITOR	100uF 16V M
R301	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R303	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R304	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R305	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R482	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R483	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R484	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R485	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R486	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R487	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R488	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R489	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R491	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R492	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R494	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R495	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R496	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R497	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R499	QRE121J-561Y	C RESISTOR	560Ω 1/2W J
R601	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R602	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R603	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R604	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R801	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R802	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R803	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R806	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R809	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R811	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R812	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R813	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R814	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R815	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R816	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R960	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R961	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
L401	QQL244K-820Z	PEAKING COIL	82uH K
⚠F901	QMF51E2-4R0-S	FUSE	4A AC250V
J801	QNS0155-001	3.5 JACK	HEADPHONE
J802	QNN0279-003	PIN JACK	VIDEO3 V IN
J803	QNN0279-002	PIN JACK	VIDEO3 L IN
J804	QNN0657-001	PIN JACK	VIDEO3 R IN
K401	QQR1114-001Z	FERRITE BEADS	
LC801	QQR1199-002	EMI FILTER	
⚠LF901	QQR1356-001	LINE FILTER	
⚠RY901	QSK0061-002	RELAY	
S801	QSW0619-003Z	PUSH SWITCH	CH+
S802	QSW0619-003Z	PUSH SWITCH	CH-
S803	QSW0619-003Z	PUSH SWITCH	MENU
S804	QSW0619-003Z	PUSH SWITCH	TV/VIDEO
S805	QSW0619-003Z	PUSH SWITCH	VOL+
S806	QSW0619-003Z	PUSH SWITCH	VOL-
⚠S901	QSW0750-001	PUSH SWITCH	POWER
⚠TH901	QAD0134-4R5	P THERMISTOR	4.5Ω
⚠VA901	QAF0060-621	VARISTOR	620V
	GG30138-001A-H	EE HOLDER	
	LC30349-001A-H	LED HOLDER	

PRINTED WIRING BOARD PARTS LIST [AV-29MT36/Z]

MAIN P.W. BOARD ASS'Y (SCW-1813A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC401	LA78041	IC		
IC601	AN7585	IC		
IC651	RC4558D-X	IC		
IC701	TDA12021-NTSC	IC(MCU)	(SERVICE)	
IC702	AT24C16-29MT16	IC	(SERVICE)	
IC901	ICE1QS01	IC		
IC951	SE135N	IC		
IC972	BA33BC0T	IC		
IC973	PQ120RDA1SZ	IC		
IC975	PQ050RDA1SZ	IC		
Q101	2SC5397/CD/-T	TRANSISTOR		
Q341	2SA1530A/QR/-X	TRANSISTOR		
Q421	2SC3928A/QR/-X	TRANSISTOR		
Q422	2SC3928A/QR/-X	TRANSISTOR		
Q461	RDN050N20	POWER MOS FET		
Q521	BSN304-T	TRANSISTOR		
⚠Q522	TT2202-YD	POW TRANSISTOR		
Q571	2SA1208/ST/Z1-T	TRANSISTOR		
Q572	UN2212-X	DIGI TRANSISTOR		
Q601	2SA1530A/QR/-X	TRANSISTOR		
Q602	2SA1530A/QR/-X	TRANSISTOR		
Q603	UN2226-X	DIGI TRANSISTOR		
Q604	UN2226-X	DIGI TRANSISTOR		
Q605	UN2226-X	DIGI TRANSISTOR		
Q606	UN2226-X	DIGI TRANSISTOR		
Q607	2SC3928A/QR/-X	TRANSISTOR		
Q608	2SC3928A/QR/-X	TRANSISTOR		
Q609	UN2226-X	DIGI TRANSISTOR		
Q610	UN2226-X	DIGI TRANSISTOR		
Q611	UN2226-X	DIGI TRANSISTOR		
Q612	2SC3928A/QR/-X	TRANSISTOR		
Q702	2SC3928A/QR/-X	TRANSISTOR		
Q704	2SC3928A/QR/-X	TRANSISTOR		
Q705	SSM3K02F-X	MOS FET		
Q706	SSM3K02F-X	MOS FET		
Q707	2SC3928A/QR/-X	TRANSISTOR		
Q708	2SA1530A/QR/-X	TRANSISTOR		
Q791	2SC3928A/QR/-X	TRANSISTOR		
Q801	KTA1267/YG/-T	TRANSISTOR		
Q803	UN2226-X	DIGI TRANSISTOR		
Q804	UN2226-X	DIGI TRANSISTOR		
Q805	2SA1530A/QR/-X	TRANSISTOR		
Q901	STP13NK60ZFP	POWER MOS FET		
Q951	2SC3928A/QR/-X	TRANSISTOR		
Q952	2SC3928A/QR/-X	TRANSISTOR		
Q957	2SC3928A/QR/-X	TRANSISTOR		
Q958	2SA1013/RO/-T	TRANSISTOR		
Q981	2SA562TM/Y/-T	TRANSISTOR		
Q982	2SC3928A/QR/-X	TRANSISTOR		
Q983	2SA562TM/Y/-T	TRANSISTOR		
Q984	2SC3928A/QR/-X	TRANSISTOR		
D341	MA111-X	SI DIODE		
D342	MA111-X	SI DIODE		
D343	MA111-X	SI DIODE		
D345	MA111-X	SI DIODE		
D423	1N4003SG-T2	SI DIODE		
D424	1SR35-400A-T2	SI DIODE		
D521	RH3G-F1	SI DIODE		
D522	RU4AM-LFM1	SI DIODE		
D523	FR105GT-T3	SI DIODE		
D524	MA8091/H/-X	Z DIODE		
D530	FR105GT-T3	SI DIODE		
D551	FR105GT-T3	SI DIODE		
D552	FR105GT-T3	SI DIODE		
D554	MA8051/L/-X	Z DIODE		
D571	MA8075/H/-X	Z DIODE		
D581	FR105GT-T3	SI DIODE		
D601	MA111-X	SI DIODE		
D602	MA111-X	SI DIODE		
D603	MA111-X	SI DIODE		
D606	MA8300/H/-X	Z DIODE		
D607	MA111-X	SI DIODE		
D608	MA111-X	SI DIODE		
D609	MA111-X	SI DIODE		
D651	MA8062/M/-X	Z DIODE		
D701	MA111-X	SI DIODE		
D702	MA8091/H/-X	Z DIODE		
D703	MA8091/H/-X	Z DIODE		
D704	MA8091/H/-X	Z DIODE		
D706	MA8036-X	Z DIODE		
D707	MA111-X	SI DIODE		
D708	MA111-X	SI DIODE		
D709	MA111-X	SI DIODE		
D710	MA8091/H/-X	Z DIODE		
D711	MA111-X	SI DIODE		
D712	MA111-X	SI DIODE		
D713	MA8039/H/-X	Z DIODE		
D714	MA8030/H/-X	Z DIODE		
D751	MA8091/H/-X	Z DIODE		
D753	MA8091/H/-X	Z DIODE		
D791	MA8062/M/-X	Z DIODE		
D810	MA8091/H/-X	Z DIODE		
D811	MA8091/H/-X	Z DIODE		
D812	MA8091/H/-X	Z DIODE		
D813	MA8091/H/-X	Z DIODE		
D814	MA8091/H/-X	Z DIODE		
D815	MA8091/H/-X	Z DIODE		
D901	GSIB460-S1	BRIDGE DIODE		
D920	MA8180/M/-X	Z DIODE		
D921	FR105GT-T3	SI DIODE		
D924	1SR35-400A-T2	SI DIODE		
D925	1SR35-400A-T2	SI DIODE		
D928	MTZJ18C-T2	Z DIODE		
D950	MTZJ36A-T2	Z DIODE		
D951	RU4AM-LFM1	SI DIODE		
D952	FMX-G12S	SI DIODE		
D953	FR105GT-T3	SI DIODE		
D954	FR105GT-T3	SI DIODE		
D955	FMX-G12S	SI DIODE		
D957	MA8075/M/-X	Z DIODE		
D958	1SR35-400A-T2	SI DIODE		
D959	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
D960	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
D962	MA8330/M/-X	Z DIODE		
D970	MA8082/M/-X	Z DIODE		
D971	MA111-X	SI DIODE		
D972	1SR124-400A-T2	SI DIODE		
D973	MA111-X	SI DIODE		
D975	MA111-X	SI DIODE		
D977	MA111-X	SI DIODE		
D981	UDZS2.0B-X	Z DIODE		
D982	UDZS2.0B-X	Z DIODE		
⚠PC901	PS2581AL1/QW/	PHOTO COUPLER		
C001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C004	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C005	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C006	QETN1HM-336Z	E CAPACITOR	33uF 50V M	
C101	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C103	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C104	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C106	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C110	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C111	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C341	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C422	QCS32HJ-560Z	C CAPACITOR	56pF 500V J	
C423	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C424	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J	
C427	QETN1VM-108Z	E CAPACITOR	1000uF 35V M	
C428	QEHR1VM-107Z	E CAPACITOR	100uF 35V M	
C430	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J	
C431	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C435	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C436	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C471	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C520	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C521	QCB31HK-332Z	C CAPACITOR	3300pF 50V K	
C522	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	
C523	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
⚠C524	QFZ0196-252	MPP CAPACITOR	2500pF 1.5kV H	
C525	QFZ0196-123	MPP CAPACITOR	0.012uF 1.5kV H	
C526	QFZ0196-252	MPP CAPACITOR	2500pF 1.5kV H	
C527	QFZ0197-204	MPP CAPACITOR	0.2uF 250V J	
C528	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J	
C529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M	
C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C531	QEZ0195-475Z	BP E CAPACITOR	4.7uF 50V M	
C532	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C551	QCB32HK-561Z	C CAPACITOR	560pF 500V K	

⚠Ref No.	Part No.	Part Name	Description	Local
C552	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C553	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	
C554	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	
C555	QFLC2AJ-103Z	M CAPACITOR	0.01uF 100V J	
C571	QETM2CM-227	E CAPACITOR	220uF 160V M	
C572	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C573	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C581	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C582	QFZ0197-204	MPP CAPACITOR	0.2uF 250V J	
C601	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C602	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C603	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C604	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C605	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C606	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C607	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C608	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C609	QETN1HM-336Z	E CAPACITOR	33uF 50V M	
C610	QETN1CM-337Z	E CAPACITOR	330uF 16V M	
C611	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C612	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C613	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C614	QETM1VM-228	E CAPACITOR	2200uF 35V M	
C617	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C651	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C652	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C653	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C654	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C655	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C656	QETN1HM-336Z	E CAPACITOR	33uF 50V M	
C657	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M	
C658	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M	
C659	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C660	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z	
C661	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C662	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C665	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z	
C701	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C702	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C703	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C704	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C705	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J	
C706	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J	
C707	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C708	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C709	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C710	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C711	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C712	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C713	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C714	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C715	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C716	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C718	QFZ0229-154Z	MF CAPACITOR	0.15uF 63V K	
C719	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C720	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C723	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C724	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C725	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C726	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C727	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C728	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C729	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C730	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C731	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C732	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C733	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C734	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C735	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C736	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C737	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C738	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C739	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C740	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C741	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C742	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C743	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C744	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C745	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C746	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C747	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C748	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C749	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C750	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C751	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C752	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C753	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C754	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C755	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C756	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C757	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C758	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C759	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C760	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C761	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C762	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C763	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C764	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C765	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C766	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C767	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C768	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C769	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C770	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C772	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C775	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C776	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C777	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C778	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C779	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C780	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C781	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C782	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C783	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C785	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C790	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C792	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C793	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C802	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C803	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C804	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C821	NCB21HK-152X	C CAPACITOR	1500pF 50V K	
C822	NCB21HK-152X	C CAPACITOR	1500pF 50V K	
C823	NCB21HK-152X	C CAPACITOR	1500pF 50V K	
C824	NCB21HK-152X	C CAPACITOR	1500pF 50V K	
⚠C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	
⚠C903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	
⚠C904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	
⚠C905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	
C906	QEZ0649-337	E CAPACITOR	330uF 400V M	
C915	QCZ0364-152	C CAPACITOR	1500pF 2kV K	
C916	QCZ0122-391	C CAPACITOR	390pF 2kV K	
C921	QCZ0122-471	C CAPACITOR	470pF 2kV K	
C923	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C924	QFLC1HJ-682Z	M CAPACITOR	6800pF 50V J	
C925	QCS31HJ-330Z	C CAPACITOR	33pF 50V J	
C927	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C929	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C930	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C940	QCZ0121-102	C CAPACITOR	1000pF 3KV Z	
C945	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C952	QCB32HK-471Z	C CAPACITOR	470pF 500V K	
C953	QCB32HK-471Z	C CAPACITOR	470pF 500V K	
C954	QCB32HK-471Z	C CAPACITOR	470pF 500V K	
C955	QCB32HK-471Z	C CAPACITOR	470pF 500V K	
C956	QEZ0203-227	E CAPACITOR	220uF 160V M	
C957	QETN1AM-228Z	E CAPACITOR	2200uF 10V M	
C958	QETN1EM-337Z	E CAPACITOR	330uF 25V M	
C959	QETN1VM-337Z	E CAPACITOR	330uF 35V M	
C960	QETM1VM-228	E CAPACITOR	2200uF 35V M	
C962	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C963	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C964	QETN1VM-107Z	E CAPACITOR	100uF 35V M	
C967	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C968	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	
C975	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	
C977	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C979	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C980	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C982	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C984	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C987	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C989	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
⚠C991	QCZ9079-471	C CAPACITOR	470pF AC250V K	
⚠C992	QCZ9079-471	C CAPACITOR	470pF AC250V K	
⚠C993	QCZ9079-681	C CAPACITOR	680pF AC250V K	
R001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R004	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R101	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R102	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	

⚠Ref No.	Part No.	Part Name	Description Local
R103	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R104	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R106	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J
R315	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R316	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R317	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R341	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R343	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R344	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R345	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R411	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R412	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R421	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R422	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R426	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R427	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R430	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R432	QRX01GJ-1R2	MF RESISTOR	1.2Ω 1W J
R433	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J
R434	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R438	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R440	QRG01GJ-331	OMF RESISTOR	330Ω 1W J
R448	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J
R460	QRE121J-331Y	C RESISTOR	330Ω 1/2W J
R461	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
R464	QRL039J-330	OMF RESISTOR	33Ω 3W J
R471	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J
R472	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R473	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R474	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R520	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R521	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R522	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R523	QRL029J-271	OMF RESISTOR	270Ω 2W J
R524	QRL039J-221	OMF RESISTOR	220Ω 3W J
R525	QRL039J-221	OMF RESISTOR	220Ω 3W J
R527	QRL039J-393	OMF RESISTOR	39kΩ 3W J
R528	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
⚠R530	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
⚠R533	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
⚠R551	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
⚠R552	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
R554	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R571	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K
R572	QRA14CF-1202Y	CMF RESISTOR	12kΩ 1/4W F
R573	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R574	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R575	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R581	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R582	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
R583	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R601	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R602	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R603	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R604	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R605	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R606	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R607	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R609	MA8030/H/-X	Z DIODE	
R610	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R611	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R612	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R613	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R614	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R615	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R617	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R618	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R619	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R620	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R621	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R623	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R624	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R625	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R626	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R627	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R628	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R629	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R630	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R631	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R632	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R651	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R653	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R654	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R655	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R656	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R657	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R658	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R659	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R662	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R663	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R664	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R701	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R705	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R706	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R707	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R708	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R709	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R711	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R712	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R713	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R714	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R715	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R716	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R718	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R719	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R720	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R721	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R722	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R723	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R724	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R725	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R726	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R727	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R728	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R729	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R730	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R731	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R733	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R734	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R735	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R736	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R737	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R739	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R740	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R741	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R743	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R745	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R746	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R747	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R748	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R749	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R750	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R751	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R752	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R753	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R754	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R755	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R756	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R758	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R759	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R760	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R761	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R762	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R763	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R764	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R765	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R768	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R771	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R772	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R773	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R774	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R775	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R776	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R777	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R780	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R781	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R782	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R783	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R784	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R785	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R787	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R788	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R790	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R791	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R792	QRE121J-330Y	C RESISTOR	33Ω 1/2W J
R793	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R794	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R795	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R796	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R802	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R803	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R804	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R807	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R809	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R810	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R811	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R812	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R813	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R814	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R815	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R816	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R901	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K
R907	QRL039J-473	OMF RESISTOR	47kΩ 3W J
R922	QRL039J-273	OMF RESISTOR	27kΩ 3W J
R924	QRE121J-334Y	C RESISTOR	330kΩ 1/2W J
R925	QRE121J-394Y	C RESISTOR	390kΩ 1/2W J
R927	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R930	QRE141J-183Y	C RESISTOR	18kΩ 1/4W J
R931	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J
R932	QRE121J-100Y	C RESISTOR	10Ω 1/2W J
R933	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R934	QRE141J-334Y	C RESISTOR	330kΩ 1/4W J
R935	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
⚠R936	QRZ9017-2R2	FUSI RESISTOR	2.2Ω 1/4W J
R937	QRE121J-820Y	C RESISTOR	82Ω 1/2W J
R951	QRE121J-153Y	C RESISTOR	15kΩ 1/2W J
R952	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R954	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R955	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R956	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R957	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R958	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R959	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R960	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
R962	QRL029J-223	OMF RESISTOR	22kΩ 2W J
R965	QRT039J-1R2	MF RESISTOR	1.2Ω 3W J
R970	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R973	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R975	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R976	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R980	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R981	QRE121J-3R9Y	C RESISTOR	3.9Ω 1/2W J
R982	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R983	QRE121J-3R9Y	C RESISTOR	3.9Ω 1/2W J
R984	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R985	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R986	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R990	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
⚠R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K
L001	QQL244K-8R2Z	PEAKING COIL	8.2uH K
L002	QQL244J-4R7Z	PEAKING COIL	4.7uH J
L003	QQL244J-4R7Z	PEAKING COIL	4.7uH J
L101	QQL244K-1R0Z	PEAKING COIL	1uH K
L421	QQL26AK-220Z	CHOKE COIL	22uH K
L521	QQLZ036-821	COIL	820uH K
L522	QQR1243-001	LINEARITY COIL	
L530	QQL244K-220Z	PEAKING COIL	22uH K
L651	QQL244J-4R7Z	PEAKING COIL	4.7uH J
L701	NQL812K-100X	P COIL	10uH K
L702	NQL812K-100X	P COIL	10uH K
L703	NQL812K-100X	P COIL	10uH K
L704	NQL812K-100X	P COIL	10uH K
L705	NQL812K-100X	P COIL	10uH K
L706	NQL812K-100X	P COIL	10uH K
L707	NQL812K-100X	P COIL	10uH K
L708	NQL812K-100X	P COIL	10uH K
L709	NQL812K-100X	P COIL	10uH K
L710	NQL812K-100X	P COIL	10uH K
L711	NQL812K-100X	P COIL	10uH K
L712	NQL812K-100X	P COIL	10uH K
L713	NQL812K-100X	P COIL	10uH K
L714	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
L715	NQL812K-100X	P COIL	10uH K
L716	NQL812K-100X	P COIL	10uH K
L717	NQL812K-100X	P COIL	10uH K
L718	NQL812K-100X	P COIL	10uH K

⚠Ref No.	Part No.	Part Name	Description Local
L951	QQLZ026-480	COIL	48uH ±7%
⚠T521	QQR1229-001	DRIVE TRANSF	
⚠T921	QQS0356-001	SW TRANSF	
CF101	QAX0349-001	C TRAP	47.25MHz
⚠CP650	ICP-N50-T	IC PROTECTOR	2.0A
⚠CP952	ICP-N38-T	IC PROTECTOR	1.5A
⚠CP953	ICP-N38-T	IC PROTECTOR	1.5A
⚠CP954	ICP-N38-T	IC PROTECTOR	1.5A
⚠CP955	ICP-N75-T	IC PROTECTOR	2.7A
J801	QNZ0454-002	PIN JACK	VIDEO1 IN
J802	QNN0349-002	PIN JACK	VIDEO2/COMP IN
J803	QNN0348-001	PIN JACK	VIDEO2 L/R IN
J804	QNN0349-001	PIN JACK	VIDEO OUT
J805	QNS0100-001	3.5 JACK	BASS SPEAKER OUT
K107	QQR1114-001Z	FERRITE BEADS	
K601	QQR1114-001Z	FERRITE BEADS	
K903	QQR1114-001Z	FERRITE BEADS	
K951	QQR1114-001Z	FERRITE BEADS	
K952	QQR1114-001Z	FERRITE BEADS	
K953	QQR1113-001Z	FERRITE BEADS	
K954	QQR1113	FERRITE BEADS	
K955	QQR1113-001Z	FERRITE BEADS	
LC801	QQR1199-002	EMI FILTER	
LC802	QQR1199-002	EMI FILTER	
LC803	QQR1199-002	EMI FILTER	
LC804	QQR1199-002	EMI FILTER	
⚠LF902	QQR1356-001	LINE FILTER	
SF102	QAX0723-001	SAW FILTER	
TU001	QAU0353-002	TUNER	
X701	QAX0799-001Z	X TAL	24.576MHz

CRT SOCKET P.W. BOARD ASS'Y (SCW-3021A-H2)

REFER TO PARTS LIST IN PAGE 3-28 FOR THIS P.W. BOARD.

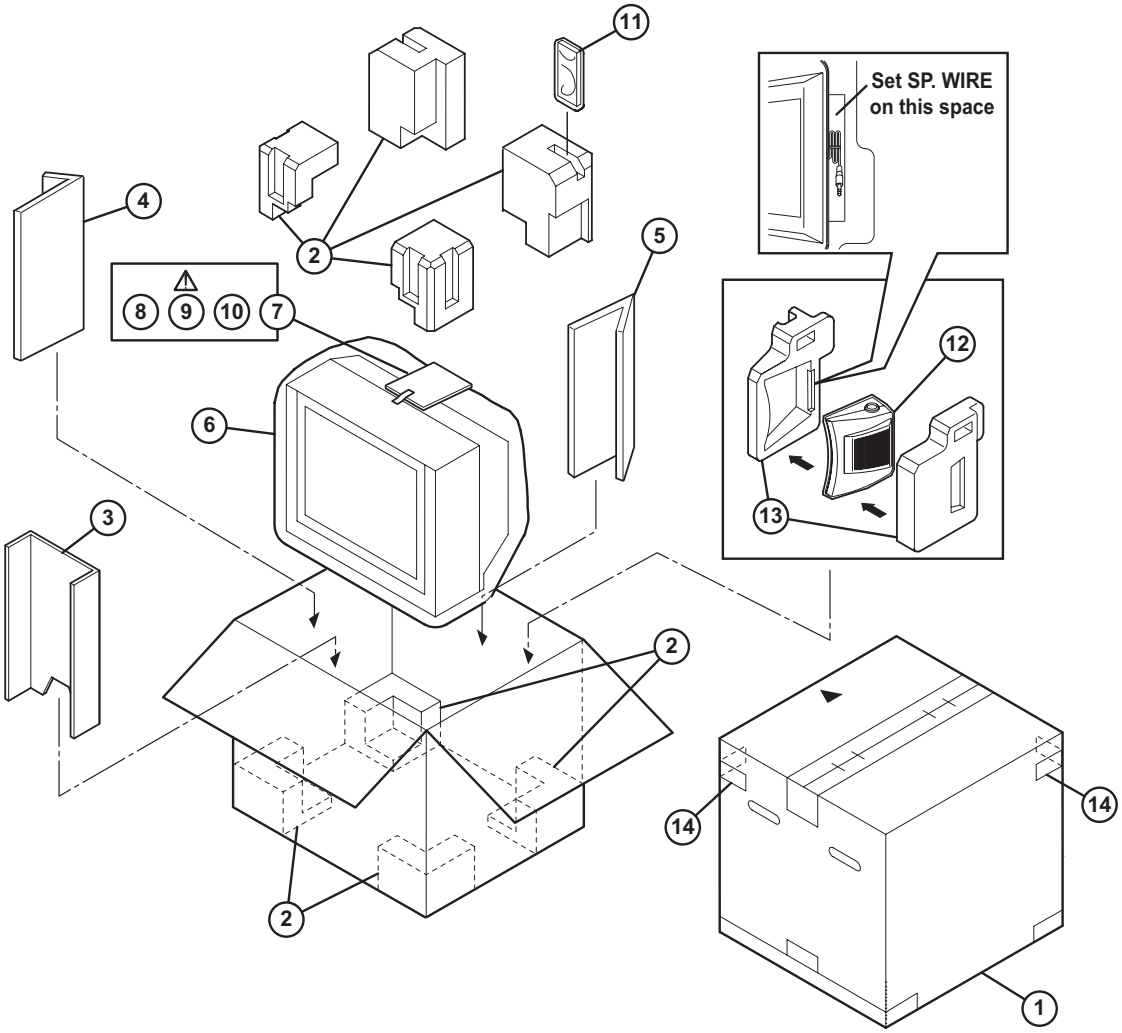
FRONT CONTROL P.W. BOARD ASS'Y (SCW-8011A-H2)

REFER TO PARTS LIST IN PAGE 3-29 FOR THIS P.W. BOARD.

REMOTE CONTROL UNIT PARTS LIST (RM-C1287-1H)

⚠	Ref No.	Part No.	Part Name	Description	Local
		R25-8566	BATTERY COVER		

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	GG10285-008B-H	PACKING CASE		AV-29MT16Z
	1	GG10285-005B-H	PACKING CASE		AV-29MT36Z
	2	GG10409-001A-H	CUSHION ASS'Y	8pcs in 1set	AV-29MT16Z
	2	GG10358-001A-H	CUSHION ASS'Y	8pcs in 1set	AV-29MT36Z
	3	GG20011-013A-H	SUPPORT PAD		AV-29MT16Z
	3	GG20011-008B-H	SUPPORT PAD		AV-29MT36Z
	4	GG20011-014A-H	SUPPORT PAD		AV-29MT16Z
	4	GG20011-009A-H	SUPPORT PAD		AV-29MT36Z
	5	GG20011-014A-H	SUPPORT PAD		AV-29MT16Z
	5	GG20011-010A-H	SUPPORT PAD		AV-29MT36Z
	6	GG30097-004A-H	POLY BAG		
	7	GG30096-001A-H	POLY BAG		
	8	----------	BATTERY	AA/R6 1.5V(x2)	
⚠	9	GGT0114-001A-H	INST BOOK	English,Spanish	
	10	QAM0028-001	MATCHING BOX		
	11	RM-C1287-1H	REMOCON UNIT		
	12	GG30097-007A-H	POLY BAG		AV-29MT36Z
	13	GG10202-001C-H	BASS CUSHION		AV-29MT36Z
	14	GG30147-001B-H	CORNER LABEL		AV-29MT16Z
	14	GG30147-002A-H	CORNER LABEL		AV-29MT36Z